

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22299	52667	A	22427	9	1535	EAQQLVSERPAENRSWKCLLA ARGEERGASIMAEQDVENDLL DYDEEEEPQAPQESTPAPP\KKD IKGSY\VSIHSSGFRDF/LCLKPE LLRAIGGLVAFEHPSHQHE\CI PQGHPGAWDVLLPGQSPGMGK TAVFRCWPPLQQ\EPVNGQVT VLVMCHTRELAFQISKEYERFS KYMPSVKVSVF GGLSIKKD\E EVMKKNCPHVVVGTPGRILAL VRNRSFSLKNVKHFLDECDK MLEQLDMRRDVQEIRLTPHEK QCMMFSATLSKDIRPVCRKFM QDPMEVFVDDETKLT\HGLQQ YYVKLKDSE\KTRKVFDLWD\W LEFNQVDILRQQCKRCMAL\A QLL\VEQNFPQAQWP\HRGNGPQ KERPVNAYQASSKDFPSGRDPL VATQ\LF\RGMDIEAKSNI\VFN YDMP*GLGTPYL\HRV\ARRGR FGTKRP*PFTFVSDG\NDA\KILN DV\QDRF*S*MWAEL\PEEIDIST YIEQSRLNHQLARAGPPGAAPH AASPPLSRRHC
22300	52668	A	22428	3	290	
22301	52669	A	22429	1	690	MNQTSEKEISKEQGNVKAAGA SDVVLYKIDVPANRYDLCLEG LVRGLQVFKERNNFLTVLEVEK SKTKVEQIQLCLCSQEDIADKLG VDISATKAVHISNPKTAEFQVA RTTLLPGLLKTIAANRKMPLPL KLFEISDIVKDSNTDVGAKNYR HLCAVYYNKNPGFEUHGLLDRI MQLLDVPPGEDKGGYV/IQSVG KLGVLHPDVITKFELTMPCSSL EINIGPFL

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22302	52670	A	22430	2	1834	GTRPTVSVKRDLLFQALGRTYT DEEFDEVLCFEGLELDEITSEKE IISKEQGNVKAAGASDVVLYKI DVLATRYDLLCLEGGLVRLQV FKERIKAPVYKRVMPDGKIQKL IIITEETAKIRPFAGAAVLRNIKFT KD\RYDSFIELQEKLHQNICRKR ALVAIGTHDLDTLSGPFTYTAK RPSDIKFPLNKTKETYACELM NIYKTDNHLKHYLHIIENKPLYP VIYDSNG\VVLSMPPIINGDHSRI TVNTRNIFIECTGTDFTKAKIVL DIIVTMFSEYCENQFTVEAAEV VFPNGKSHTFPELAYRKEMVR ADLINKKVGIRETPENLAKLLT RMYLKSEVIGDGNQIEIEIPPTR ADIIHACDIV\EDAAIAYG\YNNI \QMHSPENFTP*ANQFPLNK\LT ELLRHDMAVAAGFH*STLPLAL CSQGRYWLDKLGVGYLWQQR AVHISN\PKTAEFQVARTLLPG PP*RP*ANRKV\PLPL\KLFEIS\ DIVIK\DSNT\DVGAKKTRQSL VAGLLPTKNPG\FEINSWGCWD RIMAVCSDV\PPGGRQGGDM*F KASEGPAFFPGAMCRDSFARGQ SL\GKLG\VLHPDVIHQIWS*PLP CSSLE\NIGPFL
22303	52671	A	22431	1	304	
22304	52672	A	22432	1	642	
22305	52673	B	22433	1	423	
22306	52674	A	22434	1	525	LHEHPVTESPMNCSTLQLSLY MKSVA/GIGQTGKIEPVVPLLL WFAESGAMEGETLHTFYTQLV LMPKVMHYAQYVLLALGCVL LLVPVICQIRSQ/DRCWPEGSPG *QPFAFPPA*TDIILWTEPATLM AEVSACCAPELPPPPHRVPQIIG AQAEVNEPGGPAAFRALLDPGA
22307	52675	A	22435	3	483	VRGSGNSHGEVSKGRMCLAGA LPLPGACAALVLLVILPEPLRC PLHTLYGGRDPVDSIRLWRQA GEFRHKSNTFNNNDTVSFLEY RTF\QFQPSKSHGSESDYIVMPN ILVLNKPRSTWISVCVHGCI A SRTGPRTESMHSKSLWKA WLA APGLPLL

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22308	52676	A	22436	1	1623	RRPRLLPGAEPCPRVGPRRA DMGCSAKARWAAGALGVAGL LCAVLGAVMIVMVP SLIKQQV LKNVRIDPSSLSFN MWKEIPIF YLSVYFFDVMNPSEILKGEKPQ VRERGPVYK/ESSRHKSNITFN NNDTVSFLEYRTFQFQPSKSHG SESDYIVMPN ILVLGVAVMME NKPMTLKLIMTL\AFTT\LG\ERA FHGTALWGEV\MWGYKDPLVN LINKYFPGMFPKGGFGVFAEL NNSDSGLFTVFTGVQNISRIHLV DKWNGLSKVDFWHSDQC NMI NGTSGQMWP PFMTPESSLEFYS PEACRSMKLMYK\ESGVFEGIP TYRFVAPKTLFANGSIYPPNEG CPCLESQIQNVSTCRFSAPLFLS HPHFLNADPVLAEAVTGLHPN QEAHSLFLDIHPVTIIPMNC SVK LQLSLYMKSVAGIGQTGKIEPV VLP LLWFAESGAMEGETLHTF\YTQLVL\MPKVMH\YAQYVPS WALG\CVLLLVPV/LSCQIRSQE KCYLFWSSSKGSKDKEAIQA GSE*SLMTSAPKGS\VLQEAKL
22309	52677	A	22437	198	1062	STC VEMPRNLLYSLLSSHLS PHF STS VTS A KVAVNGVQLHYQ\HF GEGDHA V\LLPGMLGS GETDF GPQLKNLNKKLFTVV AWD P\R GYGH S RPPDRDF PAD FFERDAK DAV DLM KALKFKKV SLLGWS DGGITALIAAKYPSYIHKMVI WGANAYVTDERPAG*YEGHP RMV SQMGVEGK KESL*EALYG YDYFARTCEK WVDGIR\QFKHL PDGNICRHLLP\RVQ\CPPPLIVH G\EKDPLVPRFHADFIHKHVKG SRLHLMPEGKHNLHLRFADEF NKL A\EDFLQ
22310	52678	A	22438	223	393	AQASPPLLPP**ERSNVPCPIS

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22311	52679	A	22439	524	1516	FILEDITGYVMAPIDGLLCRPR RGLYLEGTKPMTLFQIQFLNSV GDLLDLIPSLSPKNGSLKVFKR WDMGHCSALIKVLPGFENILFA HSSWYTYAAMLRIYKHWDFNII DKDTSSRSLSFSSYPGFLESLDD FYILSSGLILLQTTNSVFNKTLL KQVIPETLLSWQRVRVANMMA DSGKRWADIFSKYNSGTYNQ YMLGPEESKAEPQSLTKGT/P VTLWEQIPTY/VRNISGTNLMFL RGKGFWA\SYNVPFHEKIYNWS GLSHC*FRKLGLGPTPYDFRPH EPKIFRRDPR/DK*LIRHPMKYI MRYNNNYKE\DPYSRGDPPVNT
22312	52680	A	22440	1	306	
22313	52681	A	22441	698	1613	FQFFQIFPEYKNNDFYVTGESY AGKYVPAIAHLIHSNPVREVKI NLNGIAIGDGYSDPESIIGGYAE FLYQIGLLDEKQKK\YFQKQCH ECIEHIRKQNWFIAFEIL\DKLL\ DGDLTSDPFLTSQNVGTGCS\NY YNFLRCTEPEDQLYYVKFLSLP EVRAHPTLGN\QTFN\DGPIV* KVPCGEDTSTSPVKPW\LTEIM NNYRVLIYNG\QLGHPSPVAAAP DQSAPLMGMDWKGSP\EYKK AEKK\WVKIFKS\DSEVA\GYI\R QVGDF\HQVIIRGGGHILPYDQP LRAFDMINRFIYGKGWDPYVG
22314	52682	A	22442	1	258	
22315	52683	A	22443	366	848	
22316	52684	A	22444	1	585	ECLCVSTA VRIRHELKTMLTEL LRGGSFEFKDMRVP SALVT LH MLLCISIPLSGRLDSDEQKIQNDI IDILLTFTQGVNEKLTISEETLA NNTWSLMLKEVLSSILKVPEGF FSGLILLSELLPLPLPMQTTQVS LPYNMHLINDCSNTF*KASDSV KKQKPSSPFLPKRHKITG*GGD KTETSWSLRKYGGKNFK

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22317	52685	A	22445	625	2700	YIRGHSTPRKLWSMHLHVQAK LLQEIVRSFSGTTCQPIQHMLRR ICVQLCDLASPTALLIMRTVLD LIVEDLQSTS EDEKEKQYTSQTT RLLALLDALASHKACKLAILHL INGTIKGDERYAEIFQDLLALVR SPGDSVIRQQCVEYVTSILQSLC DQDIALILPSSSEGSISELEQLSN SLPNKELMTSICDCLLATLANS ESSYNCLLTCVRTMMFLAEHD YGLFHLKSSLRKNSALHKLLK RVVSTFSKDTGELASSFLEFMR QILNSDTIG\CCG\DDNG\LMGSR RGAHTSRTMSINAELNQLLQS TEESPEDLFLELEKLDLEHSKD DDNLYSLDD**RGLKQMLESSG DPLPLSDQDVEPVLSAPESLQN LFNNRTAYVLADVM\DDQLKS MWFTPFQAE\EIGTDLLVVKVD LIELSEKCCSDFDLHSE\LERSFL SEPSSPGRKT KTGFKLGKH ETFITSSGKSEYIEPAKKEFMLC PPPRGRGRGGFGQGIRPHDIFR\ QRKQNTSRPP\SMHVDDF\VA E\SKKEVVPQDGI\PSHPNRPLKVS QRISSR VGFSGNRGGRAFHSQ NRFFT PPKGNYSRREGTRGS SWSAQNTPRGNYNESRGQSN FNRGPLPQL\RPLKFPTG*PAPK SLGTRAS*MVRGG\LGTFPLS AKLAASGGSRGK FVSGG\SGRG
22318	52686	A	22446	2487	3161	TWWLHISIIIPGGKKSYS PRLGR GKRFATFVLLVGGELCLTSYAP PSIHPILRSEAECLNYSIFSKFLA PAGEFALPRSF DNCPRVRLRAL RLALLLTFILCWTPYYLLGM WYWFSPHMLTEVPPSLSHILFL LGLLNAPLDPSPSYGAFTLGCR RGHQELSIDSSKEGSRMLQEEI HAFRQLEVQKTVTSRRAGETK GISITSI*S*QSM*EQNSKSLVP
22319	52687	A	22447	232	337	
22320	52688	A	22448	1	1449	
22321	52689	A	22449	1	2004	

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22322	52690	A	22450	3	1558	APARDRAGGGRRALPRLPAAS ARARGLTRALSRAMACRQEPQ PQGPPPAAAGAVASYDYLVIGGG SGGLASARRAELGARAAVVE SHKLGGTCVNVGCVPKKVMW NTAVHSEFMHDHADYGFPSCE GKFNWRVRIKEKRDAYVSRLNA IYQNNLTSHIEIIRGHAFF\TSD PKPTIEVSGKKYTAPHILIA\TGG/ MVPSTPH*EPRSRGASL*ITSDG FFQLEEVPAASLVLGARLPLSV EMAGIL\SALGSKTS\LMIRHD\K VLRSFD\SMISTNCTEELENAGV EVLKFSQVKEVKKALSGLEAS MVTAVPGR\LPVMPMIPDV\DCL LWAIGGV\PN\TKDLSLNKLG\QT DDKGHII\VDEFQNTNVKG\YAV GDVCGKALLTPV\AIAAGRKLA HRLFEYKEDSKLD\YNNIPTVVF SHPIIGTVGLTEDEAIHKYGIEN VKTYSTS\FTPMYHAVTKRKT CVMK\VCANKEEVVG\IHMQ GLGCDEM\LQGFAVAVKMGAT KADFDNTV\AIHPT\SEELVTLR
22323	52691	A	22451	51	464	
22324	52692	B	22452	103	1184	
22325	52693	A	22453	52	148	
22326	52694	A	22454	1	3282	
22327	52695	A	22455	145	436	
22328	52696	A	22456	1	3622	MPGYRAGP\EEAFDREDERQIE CQGRGVDRKITGEHTTFSGRSG PDHELTLD\SGKGCTRSMVPASA ASEDRRKLPII\VEDEGGPTRSRA CSSPARGSR\PPPSAIGCSPVAQA SDSAAGPARRTALQSLSSWLGY QIDRHSVPVYVFKSPLFSVIMAP KH\KSSDAGNLD\RPKRSR\KVLPL SEKVKVLDLIRKDK\SYAEVA K\Y\GKNESSIREIVKKEIRASF AVSPPTAKVTATVRDKCLV\KM EQALHLW\VEE
22329	52697	A	22457	3	422	VVELRCQDKEGNPAPEYTWFK DGIRLLENPRLGSQSTN\SSYTM NTKTGTLQFNTVSKLDTGEYSC EARNSVGY/PQVPGKRMQVDD LNISGIIAACVGLGV\CYAQRKG YFSKETSFQKSNSSSKATTMSE NDFKHTKSFII
22330	52698	A	22458	1	208	
22331	52699	A	22459	122	321	

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22332	52700	A	22460	2	1169	HTPKTEQTPIPGLEDPPLGSQR RRPGEGETDIPSRAVPPPLPLT LCSFPAPEVQGPPASCAPAAAGT LDLLRAAGCRPGKMARRSRHR LLLLLRLYLVVALGYHKAYGF SAPKDDQQVVTAVEYQEAILAC KTPKKTVSSRLEWKLLGRSVSF VYYQQTLQGDFKNRAEMIDFNI RIKNVTRSDAGKYRCEVSAPSE QGQKPG\EDTVTLEVLGDVHVL APA VPSCEVPSSALS GTVVELR CQDKEGNPAPEYTWFKDGIRLL ENPRLGSQSTNSSYT MNTKTGT LQFNTVSKLDTGEYSCEA\RNS VG*SEGP CETNASR*SQHKVGII GSRS*LWALVDFPFVGLVYSYG SEGKATFSKETSFQKSNSSSKAT TMSENDFKHTKSFII
22333	52701	B	22461	57	168	
22334	52702	A	22462	1	682	
22335	52703	A	22463	398	1465	GTFPPSGLITGKKRKALLGACD CTQIVKPSGVHLKLVLRFSDFG KAMFKPMRQQRDEETPVDFYY FIDFQRHNAEIAAFHLDRLIDFR RVPPTVGRIVNVTKEILEVTKN EILQSVFFVSPASNVCCFAKCPY MCKTEYAVCGKPHLLEGSLSA FLPSLNLA PRLSVPNPWIRSYTL AGKEEWEVNPLYCDTVKQIYP YNNNSQRLLNVIDMAIFDFLIGN MDRH HYEMFTKFGDDGFLIHL DNA\RGFGRHSH\DEIPILSLLSQ CGMIKKNTLLHLQ\LLAQADYR LS\DVMRESLLEDQL\SPVLT HLLA\DRRLQTILRTV\EGCIV\A AHG\QQSVH*FDGPSGNSSGPR
22336	52704	A	22464	2	424	GRGVSAVIVRAWITHKYSGR DWNVKWEENLLHAVAKNYTL LQTIPPFERPFKDHQVCLEWNM GYIWNLRANRIPQCPLEN/DFRE DFHYNDTAGYFIIGGSRYVAGI EGFFGPLKYYRLRSLHPAQIFNP LLEKQLAEQIS
22337	52705	A	22465	23	323	
22338	52706	A	22466	3	287	LSVQMYAQAALGDSQGFFNL ALLIEEGT\YERCWSHSNEESFS PCSLAWLYLHLRLLWGAILHSA LIYFLGTFLLSILIA WTVQYFQS VSGKDL
22339	52707	A	22467	1	348	
22340	52708	A	22468	1	738	

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22341	52709	A	22469	1	507	
22342	52710	A	22470	187	3682	SILCLLSPCVVQFGKPVVSILSS RSRHSPCTKKWEGMRKHLHT RQGHK*VHV\KFP\SIMGLQGM DYFHPDISIFCNLAVIVRAWITH KYRGRDWNVKWEENLLHAVA K\NYTLLQTIPPFERPFKDHQVC LEWNMGYIWNLRANRIPQCPL ENDVALLGFPYASSGENTGIV KKFPRFRNRELEATRRQRMDYP VFTVSLWLWLLHYCKANLCGIL YFVDSNEMYGTPSVFLTEEGYL HIQMHLVKGEDLA
22343	52711	A	22471	3	153	
22344	52712	A	22472	1	408	TEPEFPGRRRPRMAVMAP\RT LVLLLSGALALTQTWAGSHSM RYFSTSvsRPGRGEPRFIAVGYV DDTQFVRFDSDAASQRMEPRA PWIEQEGPEYWDEETGKVAH SQTDRENLRALRYYNQSEAGS HTLFPR
22345	52713	A	22473	1	823	MAVVAPRTLLLLSGALALTQT WAGSHSMRYFSTSvsRPGSGEPR RFSAVGYVDDTQFVRFDSDAA SQRMEPAPWMEQEEPEYWDR QTEISKTNAQIDLESRLIALRYY NQSED/GPPPKTHMTHHPISDHE ATLRCWALSFYPAEITLTWQRD GEDQTQDTTELVETRPAQDGTF QKWasVVVPSGQEQRYTCHVQ HEGLPKPLTLRWEPSQPTIPIV GILAGLVLFGAVIAGAVVAAV MWRRKSSDRKGGSYSQAASSD SAQGSDVSLACKV

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22346	52714	A	22474	1	1162	NSRVDDFVAVMAPRTL\LLLLS GALALTQTWAGSHSMRD\FFTS VSRPG\R*EPRFIAVGYVDDTQF VRF\DSDAASQRMEPRAPWIEQ EGPEYWDQETRNMKA\HSQTD RENLRIALPLTYNQSEAGS\HTL QMMFGCERGGSDGALSFRGLP PVTA Y\DGKGFTFALNE\DLRS WTAADMAAQITQRK WETPPM WRS/EQEEAYLEG\QCV\DGLRR YL\ENGKEDAAQRTPPKTHMT HHPIS*P*RPL*RCW\AL\AFYPC GDHT*PWQRDG\EDQTQ\DTEL V\ETRPAGDGT\HKWAAVVVP SGEESEITPANVQQ*RVLPKPLT LKM/WEPSSPAHPSPIVGHLLA LVL/LLGAFDHLKLWVAAVML KEGTAQVGKG*KIEKGGSYSSR LPSQ
22347	52715	A	22475	9	316	IPAMGLETEKADVQLFMDDDS YSHHSGLEYADPEKFADSDQD RDPHRLNSHLK\ILMPFVKTCL MVLPSVQTIWKSVDVIIAPLCT SVGRCFSSVSLQLSQD
22348	52716	A	22476	3	606	RPRTKAAMGLETEKADVQLFM DDDSYSHHSGLEYADPEKFADS DQDRDPHRLNSHLKLGFE\DVI AEPVTT\HSFDKVW\ICSHALFEI \SKYRM\YRSLT\TVFLGHSPWAFI CGEFSFATL\SLAHLGF*WPFV \KTCLM/VFLPSVQTIWEEC*QM V/ISLAPLC\TSVG\RCFLFLFSLA TEPRNGILGPQVWRLGYCNTSF VIIT
22349	52717	A	22477	101	432	ATRDQLKAKPENLLGSISRDSG RTQEGIPARVPYPPPP/PTREPPQ ST*PGRNGLLGCLGGGAPRPG WLDSEAGGAPAFHCPG*CPRRH RRGGTRLKQLPPPPTTVHDQPL
22350	52718	A	22478	794	1209	VKVDEVTVKHLGCQRCQWSRC PPSCSGTCLCCGAEAPCAAQPA WPPPPAAPPPTPPAPPSSD\NSSCT Q*PTPRCGT*DKDKGIFTLPKGH P*V*SLEHGFGLKGSCP\PPPPHA LVRPPQVRFNTPHGAEPQRDQL PQST

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22351	52719	A	22479	3	1041	GSNCPLRQADPGPPRHTLFMDF VAGAIGGVCVGAVGYPLDTVK VRIQTEPKYTGIWHCVRDTYHR ERVWGFYRGLSLPVCTVSLVSS VSFGTYRHCLAHICRLRYGNPD AKPTKADITLLGCLRTRPRVP DVAH*GGQSPLADADTGFLSSS GGFRRLSALLAAPPMPCPVPPACP EPKYRGPLHCLATVAQ\EEGLC GLYKGSLALVLRDGHSFATYFL SYAVLCEWLSPAGHFRPDVPG VLVAGGCAGVLAWAVATPM\D GIKSRLEANGQGQ\NGYRGLLH CMVTSVREEGPRVLFKGLVLN CCRAFPVNMMVFVAYEAVLRL RPGSAHHSRSPTPRGAHQQLV
22352	52720	A	22480	38	453	
22353	52721	A	22481	287	413	DMDYRRGGWTVIHRKIGGRID FQRVR*DYLHGYADLLREFWL
22354	52722	A	22482	1	393	MPKLLKWNYEGGACWGNLW KLPNVERLCFSEATVFRSAAQC LVVGLLLLVSRACSHEDAIEW RGDSSVNVNIVEDGSNAKDESKS NDTVCKEDCEESCDVKTKitRE EKHFMCIFHNVQSLGTVCGEK GIDVN*NYTRRKTFHVYLPQCS VTGNSLRGERH
22355	52723	A	22483	505	854	
22356	52724	A	22484	584	1009	FTQKDLFIPFEVMCDMDYRGG GWTVIQKRIDGIIDFQRLWCDY LDGFGDLLGDAFL\FL*KEDNQ NAMPFSTSVDNDGCRPACLV NGQSVKSCSHLHNKTGWWFN KCGLANLNGIHHFSGKLLATGI QWGTGNQKQLTWQE
22357	52725	A	22485	1	3123	MSHRARPCPAPFLFWMLGVKT EPAGQDRRKKARSRCIFRVHA SGLWGLRFPSEVGKPSRDKA QLSESPPQSVYLFAETALSAIP GDGVAGGGGTGDGGPGAPYPG AVADMEELTIWEQHTATLSKD PRRGFGIAISGGRDRPGGSMVV SDVVPGGPAEGLQTDHIVM VNGVSMENATSAFAIQILKTCT KMANITVKRPRRIHLPATKASP SSPGRQDSDEDDGPQRVEEV QGRGYDGDSSSGSGRSWD
22358	52726	A	22486	191	267	

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22359	52727	A	22487	2	609	PPRSSEDPAKMAEVEHEEGSG PFRKFTLPAAVDL\DQRRLDISY DQLEQPMQAVPVARPAAGGLN PGACGRKQ\HSPA*KRLLQGPS KGGAAPCHKPEAGEDATLRD\ M\H\LP EMWGS\MVGVYH\GKTF \NQVEDQGVCGRPCRLGWAGV A*CRRDQLTPSFALGLPQPEMI GHYLGEFSITYKPVKHGRPGIG ATHSSRFIPLK
22360	52728	A	22488	3	461	STISLYCGLKTCPLTCAPVSV PDSCCRVCRGDGELSWEHSDG DFFRQPATREASHSCHRSHYDP PPSRQAGGLSRFPGARSHRGAL MDSQQASGTIVRFVLNNKHKKH GQCVSNGRTYSHGESWHPNL RAFGIVECVLCTPTPID\WPQGD *GKCRHGCPTLHYVD*LPLEKQ VILATALTMLHQADRLEVCPA FLGPEVTGELLWIPSKHQEPLC DLSSITNTSMDKCVFPMEGPIL MASPGTQTSGLLALWSVCYVL PPPSIVPQGD
22361	52729	A	22489	656	1495	TGDGELSWEHSDGDIFRQPANR EARHSYHRSHYDPPPSRQAGGL SRFPGARSHRGALMDSQQASG TIVQIVINNKHKHGQCVSNGK TYSHGESWHPNLRAFGIVECVL CTCNVTKQECKKIHCNPNRYPCK YPQKIDGKC*QNSTCFLIPEELP GQSFDNKGYFCGEETMPVYES VFMEDGETTRKIALETERPPQVI CSTFCLA\QGILQHFHIEKISK MFEELPHGHFAFVCLLGQWKIF TEGEAQISQMCSSRVCRTELED LVKVLYLERSEKGHC
22362	52730	A	22490	1	477	
22363	52731	A	22491	1	294	
22364	52732	A	22492	56	4042	VFFTSMGEHLQKLIPASPACLA* IPQACQP*PPTPPAWQCRNLR/L AASRHQEPRGEVGGPLGHGAE RILA V PVRTDAQGRLVSHVVSA ATSRAGVRARRAAPVRTPSFPG GNEEEPGSHLFYNVTVGRDLH LRLRPNARL V A PGATMEWQGE KG TTRVEPLLGSCLYVGDVAG LAEASSVALSNC DGLAGLIRME EEEFFIEPLEKGLAAQEAEQGR VHVVYRRPPTSPLGGPQALDT GASLDSLDSRAL

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22369	52737	A	22497	3	5618	SSELPGPSVTPVPQLSQELPGLP APSMGLEPPQEVPPEPPVMAQEL PGLPLVTAAVELPEQPAVTVA MELTEQPVTTELEQPVGMTTV EHPGHPEVTTATGLLGQPEATM VLELPGQPVATTALELPGQPSV TGVPELPGLPSATRALELSGQP VATGALELPGPLMAAGALEFS GQSGAAGALELLGQPLATGVL ELPGQPGAPELPGQPVATVALE ISVQSVVTTSELSTMTVSQSLEV PSTTALESYNTVAQ
22370	52738	A	22498	1	4685	MAPESHILASNTMETHILASNT MDSQLASNTMDSQLASNT MDSQLASSTMDSQLATSSM DSQMLASNTMDSQLASNTM DSQMLASSTMDSQLATSSMD SQLLATSSMDSQLATSTMDS QMLATSSMDSQLATSSMDSQ MLATSSMDSQLATSSMDSQM LATSTMDSQLATSTMDSQL ATSSMDSQLASGTMDSQMLA SGTMDAQMLASGTMDAQMLA SSTQDSAMLGSKSPDPYRLAQD PYRL
22371	52739	A	22499	291	7655	KRAPEKVDAYLYKQILLMKLP TKKSKKHKKHKNKKKKKE KEKKYKRQPEESESCTKSHDD GNIDLESDSFLKFDSEPSAVALE LPTRAFGPSETNESPAVVLEPPV VSMEVSEPHILETLKPATKTAE LSVVSTSVISEQSEQSVAVMPEP SMTKILDFAAAPVPTTLVLK SSEPVVTMSVEYQMKSVLKSV ESTSPEPSKIMLVEPPVAKVLEP SETLVVSSETPTEVYPEPSTSTT MDFPESSAIEALR

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22372	52740	A	22500	90	2166	SQHFGRLRRVDYLRSTKMQTSS SRSVHLSEWQKNYFAITSGICT GPKADAYRAQILRIQYAWANS EISQVCATKLFKKYAEKYSAIID SDNVESGLNNYAENILLAGSQ QTDSKWKQGLSINNVFKMSS VQKMMQAGKKFKDSLEPALA SVVIKEATVFDPKFSVCVGSS QESDSLPSNAHDRDRTQDFPES NRLKLLQNAQPPMVNTARTC PTFSAPVGESATAKFHVTPLFG NVKKENHSSAKENIGLNVFLSN QSCFPAAACENPQRKSFYGSGTI DALSNPILNKACSKTEDNGPKE DSSLPTFKTAKEQLWVDQQKK YHQPQRASGSSYGGVKKSLGA SRSRGILGKFVPPIPKQDGGEQN GGMQCKPYGAGPTEPAHPVDE RLKNLEPKMIELIMNEIMDHGP PVNWEDIAGVEFAKATIKEIVV WPMLRPDIFTGLRGPPKGILLFG PPGTGKTLIGKCIASQSGATFFSI SASSLTSKWVGEGEKMRVRAFL AVARCQQPAVIFIDEIDSLLSQR GDGEHESSRRIKTEFLVQLDGA TTSSEDRILVVGATNRPQEIDEA ARRRLVKRLYIPLPEASARKQI VINLMSKEQCCLEEEEIEQIVQQ SDAFSGADMTQLCREASLGPI AV/SQTADIATITPDQVRPIAYID FENAFITVRPIVSPKDL*LYENW
22373	52741	A	22501	3	523	FFFFFPFAKMSKRG\RGWVPSG CRKFPDFPLGLPVGTL*SNWCL TNT\GAQKTLY\ISREGGIKG TG LTRLPRLPGVG\DMVMAHSSRK ANPELQKKGYIPA\VVIRQRKVI TVGKRWRCFFIFED\NAGVIGD NKG\EMKGFAITG\PRAKECAD LWPRDCIQMLGSIWF SQYIL

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22374	52742	A	22502	3	946	GPSASVFWLWSQQHSPRIRHP RPGERRRLHGIPHPTAEKQPA PLRPERRGGRRRRPAGRRGCA* /GGARPCSSRSS*PASTPAPRAA PPCRSPCSARPRTGPRTGAGRPR AP/HDGPPCATPDPRDQAS\PLPP RGPRPRVAPGSP\PEGHPRELPS EGSPGPRAPGQRHVRPPRAVLR PRGLRGCCPGPAHPAPRLQRR RAPGEAAAPGPRWPGRPGGRGR AQALVPAARSRCFWKLWEAVF CLPVAAAPTRRGARQRPQLW LHGKGQGVGEVSSHSAGEEH LVPHAAPKRAREPHGRSGSPGG IASSWQDGS
22375	52743	A	22503	34	823	
22376	52744	A	22504	424	2339	LLRGTLQSYAWTSVIPDIATELR DAPEKTLACMGLAIHQVTICLM HTFV*TFLMFAHTCTPCLTMVN VPHIHAR*GI*CIKVLLRMGH*R PFKNENAHRGTVVRVSNIKPLC TKMAFLCACGEIQSFPPLPDGK YSLPTKVIIRSLTASLFLILVKKAN QNTENISRQSIK*AIRLLHKRQA LDVTLLRKSILLHDLVDSCVPG DTVTITGIVKVSNAEEGRVQLF SLFVSQ**FINVHLF*DAPPILV VGDPGLGKSQMLQVDNQSFV CSFACKMR**FTSEFSPLSKDSS SGDFALEAGALVLDQGERPK GIISDSGTF*KAFSFSVNFLSISL AKAGVVCSLPARTSIIAAANPV GGHYNKAKTVSENLK*VSSNIY TFNVLNHFNSIRKRNSSHLLSEH VIAIRAGKQRTISSATVARMNS QDSNTSVLEVSEKPLSERLKV *MFLLLIQFGSV*MSKFSVWLIV DVYPRLSTEAARVLQDFYLELR KQSQRQLNSSPITTRQLESIRLTE VCFFLWSCFFWLKGEGCALTS LKYR*DKNFKLF*MKYQLSSHL KLGNRPNRSTA KRFISALNNVA ERTYNNIFQFHQLRQIAKELNIQ VADFENFIGSLND\QGYLLKKG PKVY\QLQTM
22377	52745	A	22505	73	214	
22378	52746	A	22506	1	503	

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22379	52747	A	22507	3	1000	ESKLEGKAAQDIKDEEPGDLGR PKPECEGYDPNACYCICRQPHN NRFMICCDRCEEFHGDCVGIS EARGRLLERNGEDYICPNCTIL QVQDETHSETADQQEAKWRPG DADGTDCTSIGTIEQKSSEDQGI KGRIEKAANPSGKKKLKIFQPG PGPVPTQLPVWLWQVLEIAVSRSI SAFTLLHCISCKVIEAPGASKCI GPG\CCVVAQPA\DSVYC\SNDCIL KHAATMFKLSSGKEQKPKPK EKMKMKPEKPSLPKCGAQAGI KISSVHKRPAPEKKETTVKAV VVPARSEALGKEAACESSTP\IS WAS\DHNYNA\VKPEKTAAPSP VTVV
22380	52748	A	22508	1	2330	MAAAEGKERAGGRASGRGRSE PPRPGARASDAGPGGLREVEGT GEHSVVAAGTVPRVGVGAAAR GEERRAGLGECPGGLGGCVAG LISGKSVQAFSGVAGRWPLLKV FGGNVTFCVVSVWSLCAYTLPL GMDDKGDPNEEAPKAIKPTSK EFRKTWGFRRTTIAKREGAGD AEADPLEPPPPQQQLGLSLRRS GRQPKRTERVEREQFLTIARRGR RSMPVSLEDSGEPTSCPATDAE TASEGSVESASETRSGPQSASTA VKERPASSEKVKGDDHDDTS DSDSDGLTLKELQNRLRRKREQ EPTERPLKGIQSRLRKRRREEGP AETVGSEASDTVEGVLPQSKQEP ENDQGVVSQAGKDDRESKLEG KAAQDIKDEEPGD\LGRPKPEC EGYDPNACYCICRQPHNNRFMI CCDRCEEFHGDCVGISEARG RLLERNGEDYICPNCTILQVQD ETHSETADQQEA*MGDLGDA\D GTDFTSIGNIRSRSLSRPKGLK GRIEKAANPSGKKELKIF\QPVL EIAVSRSISAFTLLHCISCKVIEA PGASKCIGPGCCHVAQPDVYC SNDCILKHAATMFKLSSGKEQ KPKPKEMKMKPEKPSLPKCG AQPVQWLLLSSWQLGTSSGL QVTLQPPFTEHKWLKFSVLHG ETAGPPRAHRIRKLNKYWGAC HHCMPLRPLPCLPGWPRSSPSL

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22381	52749	A	22509	149	2001	IQPPDPRNMTLAAYKEKMKEPLVSLFCSCFLADPLNKSSYKYE\AGVGDSVGRMKASGKTVLTGRERRAQADTV\DLNWCVISDMEVIELNKCTSGQSFEVILKPPSFDGVPEFNASLPRRRDPSLEEQKKLEAAEERRKRGPDVLYIEIHSPASLPFHSSDASVLDIPPTTYSNISNSNQELLMGGSPAEPQPHYEANILERSETTSYDNGSDAAQSFKVDGRCVFYINIPSNEGKVLWKAPEIATAKEPTWSPLGSTGPRPCQILVVKSPVVHGKGPVLSGCGLDLLEQPTFALCFLVAGAVTITFLSCSGEEAREESAPKAMSERQARRGGAEKQGAEGRGLQAVTTEPEPYRMGLGAAFLLKERSGVLPGSFICEDFTAALKQDEEIGTMKGKIREAYFKSFVPTPVAFSGGVMMLPTGGTLEMCGNNFGGHKEQAGTVLPFAFIALRVTPSASLVLRPLNLDQAMLQGSLGLQLADGLFWDLASIMDWTAWSRIQPSVSSSMKICQAFPGRPLAILAQCAYVYGTWMKLEAIILTKLTQEQKTKHHFLSPCCMPADISYRQRCLGEPPHCTVWRHLESLVMMSNTTSPCSELLIFEVPPVAPE
22382	52750	A	22510	373	990	IQPPDPRNMTLAAYKEKMKEPLVSLFCSCFLADPLNKSSYKYEADTVDLNWCVIFRHWKVIE\LNKCT/SGANSFEVILKPPSFDGVPENASLPRRARPIPWEIPVRKLGRRLRERREVTRADP*KQLAEKR\EHEERGDSKRAFRETTTFIKMAK/EKNLAQKMESNRENREAHLAAMLERLQEKD\KHAEEVRKNKELKEEASR
22383	52751	A	22511	524	1107	LCSPKVGLNASCQKNFLKQKKSIKTLSTSQ\YSVSGYSLARSENAHPEFRMAMKDGEVIVWDSVHPCYTVFHEQTETFSSLWSEYHDDFRQFLHIYSQDVACYGENLAYFPKGFIENMFFVSANPWSFTSFDLNVANMDNFFAPVFTMGKYYTQGDKVLMPLAIQVHHAVCDGFHVGRMLNELQQYCDEWQ
22384	52752	A	22512	1	1413	
22385	52753	B	22513	1	2787	
22386	52754	A	22514	1	1638	

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22387	52755	A	22515	71	2421	YTCYFLQAAEEDTQNQHDD SSSDSGTPSGPDFNYILNMSLW SLTKEKVEELIKQRDAKGRE\V NDLKRK\SPSDLW\KEDLAGIC WRDWDKV\ENSPRNEEDVLAG MSGKSNLKGKVGKP\VKKKLQ LEETMPSPYGRRIIPEITAMKAD ASKKLLKKK/KGVDLDTAAVK\V VEFDEEFGAP\VEGAGEEGIDS HQFPINK\GPKP\RREKKEPGS\R VRKPTPTSSGKPSAKKVKKRNP WSDDESKSESDEETEPVVIPR DSLLRRAADIHRLGEGFDAGL TVFAPLFASPFPPTGAPYLKAA CQTPRSGIGATAISGEALKAV SSGVDPWRWASHLRVKKLLEKSFS LQEIQSTEKVLSQQAKTLSLLG EPKLSKQLTGTICRKTNLALC RGPAAKSLFQGAVRNDRNKK KKETSKQECTESYEMTAELDDL TEKIRKAHQETFPSLCQLGKYT TSLQKGMQRCQILDLSSVRPIV DVRPPELQDSKLVLVQAACCA PLADHCSKPVLLKEGPEDQKD QHDVGDCWNPECQTLFDQNN AAKKEESETANKNDSSKKLSE RVYHIKTQLEHILLRPDTYIGSV EPLSKVAEEGPAAVGGWKGWF GTESRKDPKPTGTEEVERGVW LSGREGRLLSPSVTTMVLAEN SAIRFVGGKPSSDTVPKPKRAP KQKKVVEAVNSDSDSEFGIPKK
22388	52756	A	22516	1424	4860	GRDRYGVFPLRGKILNVREASH KQIMENAEINNIKIKVGLQYKKS YDDAESLKTLYGKIMIMTDQ DQDGSHIKGLL\NFIHHNWPSSL KHGFLEEFITPIVKASKNKQELS FYSIPEFDEWKKHIENQKAWKI KYYKGLG\VSTAKEAKEYFA\DM MERHRILFRYAGPEDDAAITLA FSKKKIDDRKEWLTNFMEDRR QRRLHGLPEQFLYGTATKHLTY NDFINKELILFSNSDNERIPSILV DGFKPGQRKV
22389	52757	A	22517	87	292	
22390	52758	A	22518	1	903	
22391	52759	A	22519	3	311	

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22392	52760	A	22520	1	1087	MPSAAWKRPVEGPATLRRPLGI AAASQCPSSPQPGCLIGAVNLK SSNRTPVVQEFESVELSCIITDS QTSDPRIEWKKIQDEQTTYVFF DNKIQGDLAGRAEILGKTSKII WNVTRRDSALYRCEVVARNDR KEIDEIAIEVTVQVKPVTAVCR VPKAVPVGKMATLHCQGE*GP PPA\HYSWYRNDVPLPTDSRAN PRFRNSSFHLNSETGTLVFTAV HKDDSGQYYCIASNDAGSARC EEQEMEVCHTDKRGFPWSW AAPHLWFLQDTALLPAALTGW CSVSVAFPGAQCKLSVDSLFWG LEDGGPLLTAPLGSTPVGTLCR GSDPTFPCTALADDLYESPTPA ANFCLDIQAFSYIL
22393	52761	A	22521	628	1117	FFISVINGQVSSVQRLSGVGPAC LSCGSANPGPPPGTSPGAGAQR R*PRADGSGSPQWPRGARVGG GRLGTGGRGRPGWRQVPRRLS PGFGR*GGTGPGPVGTSGKRG SRRRAPANDKAACWPRFPGQP AS*TGFRGERGVKGSSWGSG WRAWEDGGTVH
22394	52762	A	22522	2	238	
22395	52763	A	22523	131	2891	
22396	52764	A	22524	131	3103	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLDGTA PSAHHDIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LSSSSTEKPQPGDPDPIVASEE ASEVPLWLDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP

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22397	52765	A	22525	474	2527	SASPLGPYLLPSGAPERGSPGKE HPEERVVTAPPSSSQSAEVLGE LVLDGTAPSAAHDIPALSPLLPE EARPKHALPPKKLPSLKQVNS ARKQLRPKATSAATVQRAGSQ PASQGLDLLSSSTEKPGPPGDPD PIVASEEASEVPLWLDRKESAV PTTPAPLQISPFTSQPYVAHTLP QRPEPGEPPGPDMAQEAPQEDTS PMALMDKGENELTGSASEESQ ETTTSTIITTVITTEQAPGMQPP TPMGEGPPIVKHTWILDKCNVA TLQST*ALGPNEGYYIDSSDYPLL PLNNFLECTYNVTVYTGYGVE LQVTPGEYPDGEELLSIRGVVDGP TLTVLANQTLVEGQVIRSPTN TISVYFRTFQDDGLGTQLHYQ GRVRPRLFPRRPDSDGDTVMDL HSGGVAHFHCHLGYELQGAK MLTCINASKPHWSSQEPICSGM LQPQPHNATIGRVLSPSPENT NGSQFCIWTIEAPEGQKLHLHF ERLLLHDKDR*SSEGPTQNKSA LLYDSLQTESVPFEGLLSEGNTI RIEFTSDQARAASTFNIRFEGE PWELYEPYIQNGNFTTSDPTYN GTIVEFTCDPGHSLEQGPAAIECI NVRDPYWNDTEPLCRGERIHN ASAVAGVVLSPNWPEPYVEGE DCIWKIHVGEEKRIFLDIQ/FVS V*NGSVFSQEKRPTPEWW
22398	52766	A	22526	131	3125	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERV TAPPSSSQSAEVLGEVLDGTA PSAHDIPALSPLLPEEARPKHA LPPKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPDPIVASEE ASEVPLWLDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP
22399	52767	C	22527	161	352	
22400	52768	A	22528	2	368	LGSTHASVRINILSDVLYFIFY RRDDNKDIDSEKEAAMEAEIKA ARERAIVPLEARMKQFKDMLL ERGVRKQSLGEIFLFCISNINMS C*KVKSJVSAFSTWEKELHKIV FDPRYLLLNL

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22401	52769	A	22529	2	614	KDHRWESGSLLEREKEKLFNE HIEALTKKKREHFRQLLDETSAI TLTSTWKEVKKI\KEDPRCIKFS SSDRKKQREFEEYIRDKYITAK ADFRTLLKETKFITYS*FSERCE SESL*KMLGLAAPQTEVLCSSTE E\RSKKLIQESDQHLKDVEKILQ NDKRYLVLDVCPEERRKLIVAY VDDLDRRGPPPPPTASEPTRRST
22402	52770	B	22530	201	296	
22403	52771	B	22531	1	1290	
22404	52772	A	22532	3	3369	SSSVMAERGGVGGESERFNPGE \LRMAQQQALRFRGPAPPP\NA AMRGPPPLMRPPPFGMMRGPP PPPRPPFGRPPFDPNMPPMPPPG GIPPPMGPPHLQRPPFMPPPMSS MPPPPGMMFPPGMPPVTAPGTP ALPPTEI\WENKTPDGKVYYY NARTRESA\WT\KPDGVKVIQQS ELTPMLAAQAAQVQAQAAQAAQAA QAQAAQAAQAAQAAQAAQAAQAA QAQAAQAAQAAQVQAQVQA
22405	52773	A	22533	43	347	
22406	52774	A	22534	1	1776	
22407	52775	A	22535	3	433	PLAPNHLGGGAVVLGAESHAS KDVAIDMMDSRSTSQQQLIDE QDSYIQSRA\DTMQNIESTIVELG SIFQLAHMVKEQETIQR*DR VNSAHPWDPVHLLPSTQQVFIE HLFM
22408	52776	A	22536	304	1403	SRGNATGLRTRIRVSTWVSQRH RSCPLQLLAVA\AAATSSPLPPPVT LVPPPDTMSCRDRTQEFLSAC KFAARPVKNGI\QTN*GQLRW LVRQRSEIHP\SLAKRHLGKDLS NTFAKLEKLTILAKR\KPLFDDK AGEIEELTYI\KQDINSLIKQIAQ LQ\DFVRAKG\SQSGRHLQTHS NTIV\VSLQSKL\ASMSNDFKSV L\EV\DRGTLKQ\QREPEERQFS RAPV\SA\PLSP\THRAGGA\VV GAESHASKD\VAIDMM\DSRTS QQLQLIDEQDSYIQSRA\DTMQN IESTIV\ELGSIFQQLAHMVKEQ/ ERETIQRIDENVLGAQLDVE\AA HSEILKYFQS\VT\SNRWLMDKIF LILIVFFIIFVVFLA
22409	52777	B	22537	147	506	

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22410	52778	A	22538	2	1397	AAPGNGLSPSSWRSELACEFQH ECTAEVRFGAVVCRGARSHSFY LEREILQ/PPGMSL/PENPVTPML RHLMYKIKSTGPITVAEYMKEV LTNPAKGYYVYRDMLEKGDF ITSPEISQIFGELLGIWFISEWMA TGKSTAFQLVELGPGRGTIVGD ILRVFTQLGSVLKNCDISVHLVE VSQKLSEIQALTLTKEKVPLER NAGSPVYMKGVTKSGIPISW*S RICTD\VPKGYSFYLAHEF\LDV LPVHKFQKTPQGWREVFDIDP QVSDKLRFLVLA PASATPAEAFIQ HDET RDHVEVCPDAGVIEELS QRIALTGGAA LVADYGHGDTK TDTFRGFC DHKLHDV LIAPGTV ADLTADVDFSYLRRMAQGKVA SLGPIKQHTFLKNMGIDVR/L*R FF*INQMRPSVRQQQLQGYDML MNPKKMGERFNFFALLPHQRL QGGRYQRNARQSKP FASVVAG FSELAWQ
22411	52779	A	22539	2	377	
22412	52780	A	22540	2	1427	
22413	52781	A	22541	2	568	CSSPSN/TILGVQKLNSQWR LAQDFRLINEAVIPLYPVVPNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAO DLVHFSSPGTLVVQYMDLLL ATSSEASCQQATLDLLNFLANQ GCKRKGIALGVL TQTHGTT PQP VAYLSKETDVA AK

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22414	52782	A	22542	1	1230	GPRGTGPKGKARSEKGCSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVYKDLKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIYMNMGN KLPICWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPPTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPILGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEEAEWFP VLDLKDAFFCIPHYDSDHSQF LFAFEDPTDHSQLIWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYGLLARGTRTL GKERIQPILAYPHPKTLKQLWG FLQIT/GFCQLWIPR*SKI
22415	52783	A	22543	1	211	
22416	52784	A	22544	1	472	
22417	52785	A	22545	1	393	
22418	52786	A	22546	59	411	SWPSDKQTLVVQRGQKMEQA NHPDPTDHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSSEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYCLC
22419	52787	A	22547	43	236	TSSLLRKEDSAPSQGKSVVFTL TSQG*VPLWRTLQLQGPFFTPSS RK*LELSSANSQQHLGCPV
22420	52788	A	22548	1	1446	
22421	52789	A	22549	1	1521	
22422	52790	A	22550	2	689	
22423	52791	A	22551	1	64	
22424	52792	A	22552	636	1586	SNDRTEDDCGKHPFMSSPPTEP WVCLIIEGQEIDFLLDTGTTFSV LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDP SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNLSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPEEEAEW FTVLDLKDAFFCIPHLHSDSQFLF AFEDPTDHSQLMWMVLPQRF RDSPHLFGQAQADLGHFSSPG

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22425	52793	A	22553	292	1493	SNDRTEDDCGKHPFMSSPP\TEP WVCLIIEGQEIDFLLDTGTTFSV LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPPLLEGINPEVWA LEGQFGRAKNAHPLQIRLKDP I SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNLSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPEEAEW FTVLDLKDAFFCIPHLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQAQDLGHFSSPG TTVLQYSEIAKTLYT LIKEMER ANTHLVEWEPEAETAFTLKQ ALVQAPALSLPTGQNFAKYVIE RAGIALGVLTQTHRTTPQPVAY
22426	52794	A	22554	2	307	
22427	52795	A	22555	3	400	
22428	52796	A	22556	2	78	
22429	52797	A	22557	395	1336	SNNRTEGASSCH\PLTEPVQVCLT IEGQEIDFLLDTGTAFSVLISCPA WGTGQDSVSKKNEKKRKEKA KGNHQANAEAKIAARWNPSLE IPTEGPLVWNNPQLEIKPQYSLT ETEWGLSQGHFLPLGWLMT EVKVLIPEASQWKILKTLHQTF QMGIENTQQMAKSLFTGPNLL WTIRHVVKACEVCQRNNPLVH HKAPLGEQRIGHYPGEDWQLD FTHMPKSKGFQYLLVCVDTFT NWIEAFPCIKEKAQEVNKVLIH ETIPRFGLPQLQSDNDPAFKA MITQGIFQGAKDTISPSLCLEATI LREGREGN
22430	52798	A	22558	244	638	GPLNPTFLGPPCGLGGKLVFLL LRQ*VQLFRSAGSRDRCGFLDR ERNKTQNCGKQAKKSPKDHK NPRAVGYVPFLN*QEGNLAQP GYMSPSPSLI*SRSRQTWGSFQ MILIGTKRNRPKRKSEIRERLQP
22431	52799	A	22559	210	600	RGKRTWRERRNGWSRGFCPLP LTGSWLIRESPRLAACLGEGLG VPGM*DLPHAWPTTLMCPELV GWSH*LQE*SHGPSQ*VLQLL RWCVWSLFLMFGCVWSFFLL VSSWSRWLSEATDLCGECYSS

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22432	52800	A	22560	2746	5211	ETSCPLVRVHYAEAITGRCTAP EDEGSLGQKPPARRSNNRTEGA WGKRQLMSSP/STEPRVCLTIEG QEIDFLLDTGAAFSVLISCPGRL SSTSVTIQGILGQPVTRYFSHLL SCNWETLLFSHAFLLMPPERPTG LLGRDILAKAGAIYMMGNKL PICCPVLLVEGINPEVVALEGQF GRAKNARPLQJRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPILGVQKP NGQWSLVQDLRLISEAVIPLYP VVPNPYTLLSQIPEEAESWAL TFKDAFFCIPHLHSDSQFLFAFED PTDHTSQLTGTVPQGFRDSPH LFGQALAQDLGHFSNPGTLVHQ YVDDLLLATSSEASCEQATPDL LNFLTQNQGYKVSRLKAQLCLQ EVKYLGLILARGTRALSKE*IQP ILAYPHPKTLKQLRGFLEITGFC *LWIPGYSKIAPIYTLIKEIQR ANTHLVEWEPEAETTFKTLKQ ALVQAPALSLPTGQNFSLYVRE RARIALGVLTQTHGTTPQPVAY LSKEIDVVAKGWPCLRVVAA VAVLASEAIKIIQGKDLTV*TTY DVNGILGAKGSLWLSDNCLL YQALLLEGPVLPQICTCMALNPA TFLPEDGEPIKHDCQQIVQTYA ARDDLLEVPLTNPDNLNYTDGS SFVENGI/RKVSVDVTILESKPLPP GTSQALAEALVALTWALELGKG
22433	52801	A	22561	903	4440	DHPGHIHSSPCHERPNVSTLPF LPGEQHPILLPRNCPGDKILEE NFRYNNYKRTMMSFKERLENT VERCAHINGNRPQSRGFGEELL STAKQDLVLEEQSPSSNSLENS LVKDYIHNGDFNAKSVNGCV PSPSDAKSISSEDDLRNPDSPSS NELIHYPRTFNVGDLVWGQIK GLTSWPGKLVREDDVHNSCQQ SPEEGKVEPEKLKLTTEGLEAY SRVRKRNRNGIKVPPRSRSTIG SPRPSMPSSPS
22434	52802	A	22562	1	501	

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22435	52803	A	22563	1688	2038	SATHGLSDSCYWLVVSRAGRN NLSPASPASIIHALVFLAEPQLF QPRILGLIDEESGHEGGRPAAKT RKLSGPWSRPAAFMSTLLINQP QYAWLKEGLREENEGVYNGS WGGRGGEVITTYCPANNEPIARV RQA\SVADYEETVKKAREAWKI WADIP\APKPKEKLVRQIG\DAL REEDSKLLRKWPWCLEDWGKIL LEGVGEVQEYVDICDYAVGLS RMIGGGPILPSERSGHALIEQWNP VGLVGIITAFNFPVAVYGWNN AIAMICGNVCLWKGAPTTSLIS VAVTKIIAKVLE\DNK\LPGAICS LTCGGADIGTAMAKDERVNLL SFTGSTQVGKQVGLMVQERFG\ RHYQNWRSLLELGGNNAIIAFE DADLSLVVPSALFACCGEQLGQ RCTT/SRGRLFYYMESIHDEVFK QTLKRAYGTRSRVG\NPW\DPN VLYGAISHQGRQLSMFLGAVEE AKKERLAQWVYGGKVMDRPG N\YVEPTNVTS\LDHDASIAHTE TFAP\ILYVFK\FKNEEEVFAWE* WK*NRLGSS*HSLPKDLGAESF RW\LG\VKGTQTCG\IVKCQPFPT KWGLRLGGA\FGGEKAHLVVA RESGQ*C/WGKQYMRKVYLVL FNYS\KDLPSGPQG\IKFQ
22436	52804	B	22564	1	1434	
22437	52805	B	22565	1	1185	

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22438	52806	A	22566	1	2450	GQACHASSPLKGSRGSPPNFEILYGPIFEDSLAPD*PKVIAGQITLRDAVTGPISSPNEAGKIQYQLKPNPAVLICRVRGLHLPEKHVTWRGEAIPGSLFDFALYFFHNYQALLAKGSGPYFYLPKTQSWQEAAWWSEVF SYAEDRFNLPRGTIKATLIELTPAVFQMDEILHALRDHIVGLNCGRWDYIFSYIKTLKNYPDRVLPDRQAVTMDKPFLNAYSRLLIK TCHKRGAFAMGGMAAFIPSKDEEHNNQVLNKVKA DKSLEANNGHDGTWIAHPGLADTAMAVFNDILGSRKKNQLEVMREQHAPITADQLLAPCDGERTERKFNALMESEKGQS QNLWKFAVYSGLRHGE LAALA WEDVDLEKGIVNVRRNLTILD MF GPPKTNAGIRTVLLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQKLHFVMPRVCNGKQKPYYSVSSLGARWNAAVKRAGIRRRNPYHTRHTFACWLLTAGANPAFIA SQMGHETAQM VYEIYGMWIDDM SDEQIAMLNARVMVYDVA SGNALFISELGPLPENVTWLSPEGEFQKWNGTAWVKDTEAEKL FRIREAETKNNLMQVASEHIAPLQDAADLEIATEEEISLLEAWKKYRSIPLCSKVVTMMFDRMPPG GCPVGFPMWGRGGFDRMPPGWGGRPMPPSRRDMSPHRGPPPP
22439	52807	A	22567	1	941	MIPNVQGPMRGL EGP NYIFIKISKNRRYTM AVT SVGLASSLCRVVRPCRAPAGV VSRGSPDDEWLFCPQARIQQQDID/NGTLPDFISETASIRDA/DWKIRGIPADLEDRV/EITGPVERKM VINALNAIFMADFEDSLAPDW/NKVIDGQINLRDAVNG/TISYTN EAGKIQYQLKPN/PAVLICRVRGLHLPEKH/V TWRGEAIPGSLFDLA/LYFFHNYQALLAKGSGPYFYLPKTQSWQEA AWWS/EVFSY AEDRFNLPRGT/IKATLLD*LAGGFQMVDPSALGG*TGPWDHLRYIKVENIPKV GEEGDAETTGGTAV
22440	52808	A	22568	2	393	
22441	52809	A	22569	1066	1824	
22442	52810	A	22570	2	165	
22443	52811	A	22571	3	902	

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22444	52812	A	22572	1	2034	
22445	52813	A	22573	176	873	RLFGEMSKLN/HNLSEVMSKLE KQHSSKVFVVKRLSSSSRSLVI SPPVRTSTVSSPLTSPTSPSTLSS KSKSESVSATEDLAPDAAQGED NSEIKELLEDEEIGKEGSEASSS EEEPLLTNGGPSQAQPSPIIESA RSQEEVPPSSPALSPGGALSPSG HPLSSAAEVVLRTRTAVPQAKG NNVVITSYMTNRGFFEDKKATF APSFLMNIKGKNTSVVKNSILE QGQLTVN
22446	52814	A	22574	1	1890	
22447	52815	A	22575	2	1279	LSVFPRVRNFTTQAECH/KLFK VLKNFLIAGGGVHESSKRAS*T LQFIYY\SEWYGHEELKAIWN NDLLWEDYEEKLADQAVRTM EIYVAQFSEIKERIAKGRGRKLVD YDSARHHLEAVQNATKKDEAK TAKAEEEFNKAQTVFEDLNQEL LEELPILYNSRIGCYVTIFQNISN LRDVFYREMSKLNHNLYEVMS KLEKQHSNKFVVKGLSSPSTL SLKSESESVSATEDLAPDAAQG EDNSEIKELLEEEIEKEGSEASS SEEDEPLPACNGPAQAQPSPTT ERAQSQEEVLPSSTPSPGGALS PSGQPSSATEVVLRTRTASEGS EQPKKRASIQRITSAPPKPEKPV RTPEAKENENIHQNPEELCTSP TLMTSQVASEPGEAKKMEDKE KDNKLISANSSEKYIFQRPSVLI

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22448	52816	A	22576	1	1791	MPGARTSSSGASENHRARGQQ GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKL*KLG KAVETKDERFEQSASNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLVDYDSARHHEAVQ NAKKKDEAKTAKAEEEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNIISLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGGLSSSSRRSLVISPPVRTAT VSSPLTSPTSPSTLSKSESESVS ATED LAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEEDEPLPA CNGPAQAQPSPTTERAK\ISQEE VLPSTTTPSPGGALSPSGQLSSS ATEVVLRLRTASEGSE\RPKKT ASIQRITSAPP RPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPRTSLEI*PNPEPPEK PVRTPEAKENENIHQNQPEELC TSPTLMTSQVASEPGEAKKME DKEKDNLKISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE
22449	52817	A	22577	2216	2568	RPSLGLGM/C/TIWQ/TS/ A/GKH RRTIETHTDDYRISLEQGTPGLE PPLNALTAISKKIGCNGFFPFQIR PGKNETDGRMFSPAIGIVEDPV TGNANGPMGAWLVHHNVLPH DGNVLRVKGH
22450	52818	A	22578	108	532	WGSKGNLLYSHQTHSVSHQFS LVACCLELEYSPFSFPYACLLSS LMRLEKHQEQLNLWPAHQRSMR HPQDTLVVFS/HHGRVLL*DKT SRGTIRQQHSRFTKICCSAATAA VTQANRVWSGPLANSNRPAAE GPVLAAMFGWL
22451	52819	A	22579	1	1125	

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22452	52820	A	22580	1	985	MCARGSLWGCYSGLERKCEAA LPDRVVSSKSACGAVSQDLLQ AQGRRAGPPSWLYADPVHTGT IECGGHWCLNAALLDFQSPQRL LTYLHCGLQRPMESDPPELAPM VHQEGIYLNIRKAMYDKPTA NKLNWDKSNVSSLITGTRQEET TANGTTFATIHLQFFIQIPAVPR KTLNRADYYFPEHNPSLTLVI NRRITKFSEPNWEAPPSRGRLTP HTAGYSSETKIPEERSDSSIRGS RKSAVLQPLLLDSQANRVWSG PLANSRPAAEQPVCLWWVT LHGPLKATMQVCQQPLW
22453	52821	A	22581	294	934	YPPSPAELTVCRRLRQLLRDVL YCIAYPSGPVGKPFRGNSA/G/V VFPADNLSEAQMQLI/ARELGH SETAFLHSD/DSDVRI/RFTPTV EVPI/CGHATVAAHYVRAKVL/ GLGNCTIWQTSLAGKHR/VTIE KHNDDYRISLNALTAIS/KKIGC NGFFPFQIRPG/KNETDGRMFSP AIGIVE/DPVTCGNANGPMGAWL VH/HNVLPHDGNVLRVRQ*GPR
22454	52822	B	22582	1163	5585	
22455	52823	A	22583	2	429	ACAAAMSLVIPEKFQHILRVL NTNIDGRRKIAFAITASSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPRQYKI PDWFL
22456	52824	A	22584	84	424	GVHAASDKPCWITTSQTPDVQ HRW/WLISSML*TAPNRRSDK AFTPHTPNHAGSQLRKHPTCSI DGVIDIFHAVNTFVQHHMEETL KAFHVTGHHLIARHGLGVGKE NTEHAANVNDQRNSGFFCRF QQTFCQTCCQLIQRFVNARLD FISC
22457	52825	A	22585	88	381	IQVLANGLDNKLREDLERLKKI RAHRGLRHFWG*VGGILSLPTS TQHSSYSLFFFPNLLFLLCMTCD SSLFTCSLRVRGQHTKTTGRRG RTVGVSKKK
22458	52826	A	22586	355	699	FIDTTEAGSHFLYALVRFAATIT TITDDGARRLRTLQFQQADLV SVSKSGFFTADCTHTNALIDVV RTIFNNAAVF*NPGFVIARLKIEIA IICKATFGQLTEDREQVLMFQAV RR

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22459	52827	A	22587	1389	1532	SVLPGRPDARQYRQTRQSW*R WSLRLRGSYYPVAGRSLSRHRQ TERF
22460	52828	A	22588	1	427	LVHQQWIQTKKKSLIYPFCHSP SQRVVEVAALDQWLAMLYPR VEHQAVLAVVVVVGPLVVRP YHTRRDAVRLLRQPAVFIVAV DIVRLRDAVIRPHCECTVRV\R SGSGSRLPAGSVAYGMRMSRS GARVRTLSILPVAL
22461	52829	A	22589	1	915	
22462	52830	A	22590	1166	1321	
22463	52831	A	22591	813	977	
22464	52832	A	22592	3485	4237	
22465	52833	A	22593	1	499	ARAAACAAAMSLVIPEKFQHIL RVLNTNIDGRRKIAFAITAIG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPT\QYK IPDWFLNRQKDVKDGK\FQPGS *ANGLSTTKL\RENLKPLKEDSG PIKGLRQLP/WGLRVRGQHTKT TGRRGRTVGVSKKK
22466	52834	A	22594	1	1197	
22467	52835	A	22595	1	1905	
22468	52836	A	22596	37	514	WTWWLRCYENRHRHCHLLQQ LPTSPHQHAVATPTTVAVPTAP AATPPVVAVVVAPVVVVVV VVPVVASVPFVEPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSLRTVVAHVFGERTFDVVI WMTDGWP\YESRPAFTGRDC VDDAFFAVAGV
22469	52837	A	22597	1	471	
22470	52838	A	22598	2	323	SRIQPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAYDSLRTV VAHV/FGERTIRTLLTRRLFRCLR SSHDLVSSPVSHRRRRAGSRQR HRRARGGENVEYQWGALRHG
22471	52839	A	22599	2033	2310	ARYVGNAGCTGGALFGRSQT REAVG/ERRLAESRDVAALDTP CDPEIKMAEWMQTLKETGSTS GHIVTRRISVRISHVTPGPASQD GPDVQQR
22472	52840	B	22600	1	4891	
22473	52841	B	22601	7	1233	
22474	52842	A	22602	193	492	
22475	52843	A	22603	1	486	

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22476	52844	A	22604	62	443	RSDRLLIHGFSFPAMGFRRLRKT VVAHVFGERTMATLGRLMSLL SPFDVVIWMTDGWPLYESRLK GKLHVISKRY\TQRIERHNLNLR QHLARLGRKSLFSKSGTACCG HCLTRDIPMLHHQGNQLF
22477	52845	A	22605	971	1444	SMGSGDMRSSPSRAALRQLPR PFRQLAVRMEMISFRSAKEQT KSLRKWRKAKSIF*SVAQTGFn VLVCTTIIETGIDSRQPTLLSLNA RITSVCAAAPVTRSRRTFASSGY AWLLTPHPKAMTTDAKNVLKQ LPRWKISGQVRAGTARSGDSRR W
22478	52846	A	22606	1	1047	
22479	52847	A	22607	318	598	LTGFRRLCDLRFGGGAVRSVLA RSREFILQH*FRRIVTGSMGRSL VPSAPLR/PSIVLVLFRKAW*LV KTQRKMHVVSIVQKKASCWYP LLGCL
22480	52848	A	22608	1	2652	
22481	52849	A	22609	1	852	
22482	52850	A	22610	1	807	
22483	52851	A	22611	1	1740	
22484	52852	A	22612	1	3144	

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22485	52853	A	22613	173	1983	PVQNGSSPLGALPGAPLIFGPSV PAISRPGSCSPEWPTLDTSGYSA PR/WLFTAYAGSEA VFAHVFGD ALGDAGLLMSLLSPFDVVIWM TDGWPLYESRLKGKLHVISKRY TQRIERHNLNLRQHLARLGRKS LSFSKSVEQHDKLESLPQIDKS LDEASLSLRAGSLRTITHILLPLL RPAILSALIYSFVRAITTVSAIVF LVTDPTRVATA YILNRVEDGEY GVAIAYGSILIVVMLAIIFIDWL IGESLLSRFEKTVDDHSQSRLPA EGSILSQDISGVKLFSLLTPARG YVPIRAPCPFLCASYRFFCVARQ QGLDAALIDAPLA VDALTPLSE LLSHVGQAPCSVPPVDEDQQY VGIISKGMLLRALDREGGVRVP VDYILNGFHPLLLGMMPAPLAIIV FALIACRPGNSGRIRRSRRIRH LHKMPDATLSASYQAYVRHQT NVTALVLRSSHFRKDRHCWG FVFLQQPILRATGQFEIQTFRYL SVFSVQRHKTNNGKTALMSGNV ADKAVNRATGPTACVWLFSLR NSSMVTTRFCGLCEWADQQGA RPARISENGKRGYSYLYDVHM GAQSGETRGRQGEYASKPPSRE
22486	52854	B	22614	1	2149	
22487	52855	A	22615	1	1815	
22488	52856	A	22616	2014	3411	
22489	52857	A	22617	1	922	MVICQPINGGWQWPPSTGTDP APYFRIFNPTTQGEKF DHEGEFI RQWLPELRDVPKGKV VHEPWK WAQKAAAPPQTRLHSTPTTIPH RVPGHTPNLKPIWEV DLPKFSH KATSHATDKPSDTTQNDQIVIA YMEPPEIVHETTSSTHPSLYIIL KRQTRELRPQS VTSRIQPGSDVI VCAEMDEQWGYVGAKSRQRW LFYAYDSLRLKTVVAHVFGERT MATLGRLMSLLSPFDVVIWMT DGWPLYESRLKGKLHVISKRYT QRIERHNLNLRQHLARLGRKSL SFSKSVELHDKVIGH\YLNKHY

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22490	52858	A	22618	1458	2185	YGHEWRWMPGNRPHYGRWP QHDFPPFKKLRPQSVTSRIQPGS DVIVCAEMDEQWGYVGAKSR QHWFYAYDRLRKTVVAHVF GERTMATLGRLMSLLSPFDVVI WMTDGWPLYESRLKGKLHVIS KRYTQRIERHNLNLRQHLARLG RKSLFSKSVEKITSGPTTNATP GTQKTATDKRGGKKLPIQPIGP ISRIASGAANTISIGLRKFLVTA GVMLSTQRSIYDRHQVITSAGIT
22491	52859	A	22619	493	1518	
22492	52860	A	22620	963	1597	
22493	52861	A	22621	1	3052	MATDSVGLNCTPAPHARDVLL WRPSSLPVSTSCVFPGLGRIGDVS DESDDKTEAPTPHRLEKAREEG QIPRSRELTSSLILLVGVSIVWF GGVSLARRLSGMLSAGLHFDH SIINDPNLILGQIILLIREAMLAL LPLISGVVLVALISPVMGLGLVF SGKSLQPQFSKLNPLPGIKRMFS AQTAGEELLKAILKTLVGSVTG FFLWHWPQMMRLMAESPITA MGNAMDLVGLCALLVVLGVIP MVGFDVFFQIF
22494	52862	A	22622	1	1233	MANDLPHNSNGDGQKPSSPDLF TAPLLADPTVGFLPNDAEELFIF LTEITEITIPCRVTDPQLVVTLHE KKGDVALPVPYDHQRGFSGIFE DRSYICKTTIGDREVSDAYYV YRLQAVPPVQLLTGWCVTAKA PPDISAISALTAVKHGNCSSLTP LLNPPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAY\DSLRAR RVVAHFGV*RTMATLGRLMSL LSPFDVVIWMTDGWPLYESRL KGKLHVISKRYTQRIERHNLNL RQHLARLGRKSLSFSKSVELHD KPSHQHREGVKDVMRFNEPMY PLESRPRLYVCHLRNGAQASGR RCQLPMGCACHPVSQRNDRPN RRPERHATRKTTTRQRQQNSRQ HKQTQKKAKPNKRRATERGKG PQQKAERPKRHTHCFLKLQ

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22495	52863	A	22623	3	1386	HEASSPLAMASLTVKAYLLK EDAAREIRRFSFCCSPEPEAEAE AAAGPGPCERLLSRVAALFPAL RPGGFQAHYRDEDGDLVAFSS DEELTMAMSYVKDDIFRJ*IKE KKECRRDHRPP\CAQEAPRNMV HPNViCDGCNGPVVGTRYKCS VCPYY\DLCSVCEGKGLHRGHT KLAFF\SPFGHL\SEGF\SHSRWL\ RKV\KHGHF\GWPGW\EMGPPG\ NWEPTFLPRAG\EARPGP\TAES ASGPSEDPNVFLK\NVGESVA\ AAFSPL\NFEVDIDVEHGGKRSR LTPVSPESSSTEKS\SSQPSSCC SDPSKPGGNVEGATQSLAEQM RKIALESEGRPEEQMESDNC SG GDDDWTHLSSKEVDPSTGELQ SLQMPSEGPSSLDPSQGGNPQ GWKEAALYHLP\PEVEPAA*F ESLSQMVVPGWS*LKGGWVH QGSCRPRNYD\GAAL\DTIPVIQ
22496	52864	A	22624	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
22497	52865	A	22625	121	561	VFPGPLGSLVDICGPSRVPFPWV VPAVLPVQFVQRLPRFFRCPPV LVTSVIRSISTLIQALGSSPFARR YWGNLG*FLFLGVLRCSSTGS PH*PMNSVNDSVSKHT/EVTPF GN\PGNNGSYHLDAYRRLARP SSPLTPGHPPLYG
22498	52866	A	22626	243	454	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP\GARIMGVGLNTVLRHL KNSGRSR
22499	52867	A	22627	3	640	
22500	52868	A	22628	236	410	
22501	52869	A	22629	116	359	

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22502	52870	A	22630	276	1905	LFLYSSHGQYGCPCSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAGQ*RTAIATVI CCNNCQRRHTNSRCHTDNCRR ADSASSHATSGSSSRGCAGSGR CGASSTRRCLGPVCCFRGSKRS WRRQHEGHKDCRKLVFHNFSFI HRMDNTAVPPVQLLTGWCVTA KAPPDISAISALTAVKHGNSSL TPLLNPPGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRK TVVAHVFGERTMATLGRLMSL LSPFDVVIWMTDGWPLYESRL KGKLHVISKRYTQRIERHNLNL RQHLARLGRKSLSFSKSVELHD KQQGLDAALIDAPLAVIDAQTP LSELLSHVGQAPCAVPVVDED QQYVGIISKGMLLRALDREGGV RVPVIYPKRFRTTDVCMPLSLG TCIREIEAEFPDPFIRRSVYYICE HNTNGAMGIIVNKPLENLKIEGI LEKLKITPEPRDESIRLDKPVML GGPLAEDRGFILHTPASNFASSI RISDNTVMTTSRDVLETLGTDK QPSDVIVALGYASWEKGQLEQ EILDNAWLTA PADLNILFKTPIA DRWREAALKLIGVDILTPAQD GTPDWNIERLLKEWQPDEIIVG LPLNMDGTEQPLTARARKFAN RIHGRFGVEVKLHDERLSTVEA RSGLFEQGGYRALNKGKVDSA SAVIILESYFEQGY

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22503	52871	A	22631	399	2337	PEVQGLQQAGAAARRPGVGLA APRVVCEGRLRGSGLQSRLCPG ASV*ATDGVVRNGKSTAGHQR YLCSHCRKTWQLQFTYTASQP AGQ*REKEEKEEVEEEEEEEKK KRRREGEKEEKEKEKEKKKK FKKKKKKKKKKKKKKKKKKKKK KKKKKKQLSLTVMSQQCQL WRNEARTTGACLPSPTVSAAAP PIVSTTVTAFAAAATLAKGDLRS RASSKQVPLLVLVWWPHPG WFKAGSVALGSSPGCVLELL CKLLTGWCVTAKAPPDISAISA LTAVKHGNCSSTPLLNPPGSD VIVCAEMDEQWGYVGAKSRQ RWLFYAYDSLRLKTVVAHVFGE RTMATLGRLLMSLLSPFDVVIW MTDGWPLYESRLKGKLHTQER KARSKQQKDADTAPPIQVGTQ TPQTVHAARDTRQASPRASKIS QHRQADGDKRQTRHAEAQAT RTHTGRRKTIKETATQQAYADE QTRRRTARTHRRRTARHTAAHTH RTRVAARQTTEKDNEQSDTQPP TQKTPSATATAHTPRRTETTTNI VQARHTSARERNHTRHQATR RETTINAHTNTPHYHAEHTQSR SQQQTTSTERPTTDSSTTINNNN HTPRTVRDERRMTQHKHPSRA STTTNRTTTGAYQHTQRDTRD TRRDTHEDTTTQQPHTTTPTAN EAAYTAHTTKTDDHRHTADDT
22504	52872	A	22632	103	313	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22505	52873	A	22633	620	832	

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22506	52874	A	22634	453	1047	AADDRGHRLRPTDGLLRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAGQ*RVGTTSERREQIIQ RLRQQGSVQVNDSLALYGVST VTIRNDLAFLEKQGIAVRAYGG ALICDSTTPSVEPSVEDKSALNT AMKRSVAKAAVELIQPGHRVIL DSGTTTFeIARLMRKHTDVIAM TNGMNVANALLEAEGVELLMT AGICALLTGCCVTAKAPPDISAI SALTAVKHGNCSSLTPLLNPPG SDPVCAEMDEQWGYVGAKS RQRWLFYAYDSLRTVVAHVF GERTMATLGRLMSLLSPFDVVI WMTDGWPLYESRLKGKLHVIS KRYTQRIERHNLNLRQHLARLG RKSLFSKSVELHDKVIGHYLN GDFLQSTLREAPLIPHTREHP
22507	52875	A	22635	1089	1686	TSPGYWRANSTDPDGRYCRTG TSGGVCHALSSLRCPCSATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTAASQPAGQ*RFLSK QEKTLLINQLASEEQQQKVTSRL SDALRNGRWWQLAIYLTQVA VYGLIFLPTQVAALLGKVGFT TASVVTAIIPWVAALFGTWLIPR YSDKTGERRNVAALTLLAAGIG IGLSGLLSPVMAIVALCVAAGF IAVQPFWTMPTQLLSGTALAA GIGFVNLFGAVGGFIAPILRVKA ETLFASDAAGLLTAAVAVIDR RGTSLNRLRNTMIALLSNPFKE RLRKGEVQIGLWLSSTAYMA EIAATSGYDWLLIDGEHAPNTI QDLYHQLQAVAPYASQPVIRPV EGSKPLIKQVLDIGAQTLIPMV DTAEQARQVVSATRYPPYAVH PVQLLTGWCVTAKAPPDISAIS ALTAVKHGNCSSLTPLLNPPGS DVIVCAEMDEQWGYVGAKSR QRWLFYAYDSLRTVVAHVF ERTMATLGRLMSLLSPFDVVIW MTDGWPLYESRLKGKLHVISK RYTQRIERHNLNLRQHTGTGW DGSRCRSRSQKSGGAA
22508	52876	A	22636	91	200	SGIIAFQYLLMTLKVLPVASVSI SCPSICSATDGVVRNGKSTAGH QRYLCSHCRKTWQLQFTYTA SQAQGQ*RGGA

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22509	52877	A	22637	2649	3270	GAPVASVSISCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RTIGRAML KNKHMTITEFVAQRMRDAQQK GEISPDIATMSRLLLTYGV LADIEAEDLARKRLLLITRDD WRYLNRLILSLFRRAGDNCAR VSYQTPTREIKKLDGLWAFSLD RENCGIDQRWWESALQESRAIA VPGSFNDQFADADIRNYAGNV WYQREVFIPKGWAGQRIVLRF DAVTHYGKVVVNNQEV
22510	52878	A	22638	1	2470	MNADTDYSIAEAAFNKGETAM TINGPWAWSNIDTSKVNYGVT VLPTFKGQPSKPFVGVLISAGIN AASPNEKELAKEFLENYLLTDEG LEAVNKDKPLGAVALKSYEEE LAKDPRIAATMENAQKGEIMP NIPQMSAFWYAVRTAVINAAS GRQTVDEALKDAQTRITNCCRI RRESLIRPGMRKNPMVDIKKKH WWQSDALKWSVLGLLGLVG YLVVLMYAQGEYLFAITTLILS SAGLYIFANRKAYAWRYVYPG MAGMGLFVLFPLVCTIAIGFNN YRRTKQVAGMPAKSSSLRSSQ DREM RPGAKAERTRYDSPGSY GVAGPGFLGSRGGSFPGPGKY NNTITKYALNIAPSQANQSPHG PKLNRRQETQHALDWLDAGYT FTYSEDQALTPYFKLAYVYDDS NNNDNDVNGDSIDNGTEGSAVR VGLGTQFSFTKNFSAYTDANYL GGGDVDQDWASANDLTGITAKD AQMLSVVKPLQEFGKLDKCLS RYGTRFEFNNEKQVIFSSDVNN EDTFVILEGVISLRREENVLIGIT QAPYIMGLADGLMKNDIPYKLI SEGNCTGYHLPAKQTITLEQN QLWRDAFYWLAWHNRILELRD VQLIGHNSYEQFAHIIIFMIAAM QMGSVVGDDFSSGQHSVARKS QLHKPILRVKCHEGFTISANPNS SPRYPTIIEQAEQPRIVDFSIVRF
22511	52879	A	22639	1	852	

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22512	52880	A	22640	1	747	MIIDPRYTDTGAGREDEWIPIR PGTDAALVNGLAYVMITENLV DQAFLDKYCVGYDEKTLPSA PKNGHYKAYILATD/GVVRTAK STAGHQRYLCSHCRKTWQLQF TYTASQPAGQ*RYTDTGAGRE DEWIPIRPGTDAALVNGLAYV MITENLVDQAFLDKYCVGYDE KTLPASAPKNGHYKAYILATDG WCVPPKAPPDISAISALTAVKH GNCSSLTPLLNPPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSLRLKTVVAHVPGERTMATL GRLMSLLSPFDVVIWMTDGWP LYESRLKGKLHVISKRYTQRJIE RHNLNLRQHLARLGRKSLFSK SVELHDKVIGHYLNKHYQ
22513	52881	A	22641	1722	2463	NPRLAGSEGS PCSATDG VVR NGKSTAGHQRYLC SHCRKTWQ LQFTYTASQPAGQ*RK LTPGCL FVALKGERFDAHDFADQAKAG GAGALLVSRPL DIDLPQLIVKD TRLAFGELAAWVRQQV PARVV ALTGSSGKTSV KEMTAI LSQC GNTLYTAGNLNN DIGVPMTLL RLTPEYDYAVIELGANHQGEIA WTVT HPPRFVTKQWL CFPDG LLLFAEARFVIWQM QPAVMAV DVAFAHLFNQQQYQRFTGRP PDSSKLPW KITCNGECVT FW WLLGVAVRISRLLPVRVMTAL EGNYNGTEGISALPFNGIILAH NESEWVTFRNNKNNEAFLDRV YIVKVPYCLRISEEIKIYEKLLN HIFECWQHFLNNPESLQCYIWA ANADFREARQVIFKTF TVGVE EELGIRQTRTNDFLVTGDNLLRI FRFDVGNEDKVRQQFAVVRIH REVFLVTFHGVNQRFSRREEF LFEFCVSVTANLTRCF GIGFNL RLTFFVIGDDPTLTQNFRI LIGV IDGEFRLAHKAVAANHAIGLNA QNGCRNDFVAHAAGS RALAAD GRSLEHAPTVETVVAGPLCESG DVFTQQEGGNVETRALPEVKA AVPPVQLLTGWCVTAKALPDIS AISALTAVKHGNCSSTPLLNPP GSDVIVCAEMDEQWGYVGAKS RQRWLFYAYDRLRKT VVAHRL

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22514	52882	A	22642	90	1254	KGLCSHSEMVVPSYSATDGVVRNGKSTAGHQRYLCSHCRKTWQLQFTYTASQPAGQ*RDIVLTKLMMVWHSQSGYEKAYAHICRWYWRAILLTGWCVTAKALPDISAISALTAVKHGNCSSLTPLNNPPGSDVIVCAEMDEQWGYVGAKSRQRWLFYAYDRLRKTVVAHVFGERTMATLGLRMSLLSPFDVVIWMTDGWPLYESRLKGKLHVISKRYTQRIERHNLNLSSSTSILVLNGATQFQDQLGDLNKELEETYTDSKNHISCVGNDFGFNDIFSRYVEAVGREGDVLLGISTSGNSANVIKAIAAAAREKGMKVITLTGKDGGKMAGTADIEIRVPHFGYADRIQEIHVKVHILQLIEKEMVNFTGLVQRGGGTGPHKDGWGITFYEVAFEDVAVNFTQEEWALLDPWQKKLYRDVMLETYRNLASVGDDDNIPSLREQVAHQRYFKTWHVEREYFSK
22515	52883	A	22643	690	1233	RLQSLHYQGRGKPVPMRSYSLSFLFTISAGVFRCPSCSATDGVVRNGKSTAGHQRYLCSHCRKTWQLQFTYTASQPAGQ*RLLGPKNRPREQNWLWCERGVMSRLQALYLREQGFNNVKVDNFQTKVDSCTRPLAGQQFYPCIPDDALVQPLFGGNFVQRREAGHITNREDIVRHQHGGWRGANSRDDTPGTVELFNGFNQQSAIAKTLRAFNATRQHDHVIFAISHFDQRRIRQLHAARAGNRQVTIAGDAGSGDFDTAANQQIDSGDGFSLFTTRGEANQCRCRAHIHSPFLPFQTVRVFSAVPPVQLLTGWCVTAKAPPDISAISALTAVKHGNCSSTPLLNPPGSDVIVCAEMDEQWGYVGAKSRQRWLFYAYDSLRTVVVAHVFAVKPYWDTGGGFHCRWIYMQQEKEELLQLSLQQGKYNQKRAAELLGLTYHQFRALLK

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22516	52884	A	22644	1314	1483	R1QRYCGKTGCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFT\YTASQPAGQ*RMFNADG SEVAQCGNGARCFARFVRLKG LTNKRDIVSTANGRMVLTVT DDDLVRVNMGEPNFEPSAVPF RANKAEKTYIMRAAEQTIILCGV VSMGNPHCVIQVDDVDTAAVE TLGPVLESHERFPERANIGFMQ VVKREHIRLRVYERGAGETQA CGSGACAAVAVGIQQGLLAEE VRVELPGGRLDIAWKGEELQET LTELEDDRAVVVDYLIKNPPEFFIRN ARAVEAIRVPHPVRGTVSLVE WHMARARNHIHVLEENMALL MEQAIANEGLFYRLLYLQRSLT AASSLDDMLMRFHRWARDLG LAVAMPVTINKGNQIENQLDT ETITISYEFILCQHLLIANTEFSYL ALPENYNRLCLPNSKNQTNNRF KTLNSKAIGRLLAAGGVYNGNI EGFRDTAEKLAVPPVQLLTGW CVTAKALPDISAISALTAVKHG NCSSLYTASQPAGQ

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22517	52885	A	22645	1479	1793	TRYRSCPSCSATDGVVRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAGQ*RRNACQYRTPAV VASRQKRWHGDLGMIGSRDV MLFISDSVGAKELDLIPRLEDK SIALLAMTGTKPTSPGLAAKAV LDISVEREACPMHLAPTSSTVN TLMMGDALAMAVMQARGFNE EDFARSHPAGALGARLLNKVH HLMRRDDAIPQVALTASVMDA MLELSRTGLGLVAVCDAQQQV QGVFTDGDLRRWLVGGGALTT PVNEAMTVGGTTLQSQSRAIDA KEILMKRKITAAPVVDENGKLT GAIKLQDFYQGRGLFNPSIPRVS TADAGLANRARRNWVGSSWK QVGQIILQGGPQNAEKSGQRYT VSHDRHRDAERQRVKSGLPY AECSTYPSCPVALDLAFASHGI HMHAPGEALRMLVTAMDCAA DARTKLARLLATKGITHEIQIPD ISTKEKAQQPIGLNMEQIKPEKQ DFIKPVIPQAGKHNGVNMSVLR SLLTAGVLASGLLWSLNGITAT PAAQASDDRYEVTTQQRNPDA CLDCCHKPDTEAVPPVQLLTGW CVTAKAPPDISAISALTAVKHG NCSSLTPLLNPPGSDVIVCAELD EQWGYVGAKSRQRWLFYAYA QSPRTTRCCARIRLHALWRRW

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22518	52886	A	22646	807	1350	NRGCPSCSATDGVVRNGKSTA GHQRYLCSHCRKTWQLQFTYT ASQPAGQ*RLLNRLIEPTRGQV LIDGVIAKISDAELREVRRKKI AMVFQSFALMPHMTVLDNTAF GMELAGINAERREKALDALR QVGLENYAHSYYPDELSGGMRQ RVGLARAINPDILLMDEAFSAL DPLIRTEMQDELVKLQAKHQR TIVFISHDLDEAMRIGDRIAIMQ NGEVVQVGTTPDEILNNPANDY VRTFFRGVDISQVFSAKDIARRT PNGLIRKTPGFGPRSAKLLQD EDREYGYVIERGNKFVGAVSID SLKTAAVPPVQLLTGWCVTAK APPDISAISALTAVKHGNCSSLT PLLNPPGSDVIVCAEMDEQWG YVGAKSRQRWLFYAYDSLRK VVAHVGERTMATLGRLLMSLL SPFDVVIWMTDGWPLYESRLK GKLHVISKRYTQRIERHNLNLR QHLARLGRKSLFSKSVELHDK VIGHYLNKHYQ
22519	52887	A	22647	1	1270	MTAATEQLNASRGLSTREMER QAEALAKITTDYINSGGSEGDEK LQNMKAQNDYYAAEDAKRA DWLAGAESAFADYGDSAMDM YGNVNEIASSALNGMTDMMV QFLTGKANFADFAKNIISMIK MIAQMVFNTSLRNDGRSVSSG GAAVSLAAAAGSVATSGFNAS NSAPKVVTIREVERSVDVSGME ASSTSWITIRSFTAETSTFGPTM TASMTFLPTYCSIASISSLSSFKLA AATDGVVRNGKSTAGHQRYLC SHCRKTWQLQFTYTASQPALA RNPNRDITIYWGGREEQHLYDL CELEALSLKHPGLQVVPVVEQP EAGWRGRTGTVLTAVLQDHAT DGVVVRNGKSTAGHQRYLC RKTWQLQFTYTASQPGTHQKII DMAMNGVGCATARIMGVGL NTIFRHLKNSGRSR

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22520	52888	A	22648	381	945	GAPVASVSICPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RTENQTPH VLTHKWE NYENPWTQGGEHL TMGLVVGVWRGLQEGDPARTN LSYYQANVSGQHRENKGPIN LGNVGKSNGERGGKSLYRCKIF LESSVTMKGKDLRELPPVYDGVFEV LQWLLFLSAVPPVQLLTGWCV TAKAPPDISAISALTAVKHGNC SSLTPLLNPPGSDVIVCAEMDE QWGYVGAKSRQRWL FYAYDS LRKTVVAHVGERTMATLGRL MSLLSPFDVVIWMTDGWPLYE SRLKGKLHVISKRYTQRIERHN LNLRQHLARLGRKSLSFSKSVE LHDKVIGHYLNKHYQ
22521	52889	A	22649	354	1119	RRWRRGAHEAATGGTGRGPAE EAAPGEPAAGRAAPKSGGKRL GGVLGRGGVGRRSGSPDRSGA HSAAPRRCRQLPGRCPSCSATD GVVRNGKSTAGHQRYLCSHCR KTWQLQFTYTASQPAGQ*RSK GAIGEGPPDPRGIVEQNLGGDIS IPCYNGPRPRRSAQKTTLGPLN QPRIPSAQCAGAFPRVAAAGAG GGGGGGSGSGFCLGWRLRRR RQRRRRWRRGEGEGDGDAGH MRPRPAGRAEARRRRLRGNP PPGARLPNREGNGSGVSWAAE VSGDGRGARTEAARTRRPGG ADNYPGAVPPVQLLTGWCVTA KAPPDISAISALTAVKHGNCSSL TPLLNPPGSDVIVCAEMDEQW GYVGAKSRQRWL FYAYDSLK TVVAHVGERTMATLGRLMSL LSPFDVVIWMTDGWPLYESRL KGKLHVISKRYTQRIERHNLNL RQHLARLGRKSLSFSKSVELHD KVI GHYLNKHYQ
22522	52890	A	22650	23	658	VISRPGSSIQVRGLLSSRHGLAL GSAPDLWKLWVNLVQGMGQ QSQGSSCREGCSRQCPSCAAC GAAPAHFCSAATFWESEVQSP R/CRATDGVVRNGKS/TAGHQR YLC SHCRKTWQ/LQFTYTASQP EVIRSSPTSA PRSDGT KTVPLM GISP*SAHHRLATSDPSLCLSES LCSREPAAPRASNQQPQGVK DVHHQFTARTSRYP SKC
22523	52891	A	22651	926	1093	

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22524	52892	A	22652	343	817	GGARSQRQNPRCGPMVVPGQSGRSVSADSSTEFRREQGGS\A\SFPKSINRAGPELFRFMENPFNSV*YRKNVRELTPAIMAVLPVEFRTRLAPQNDTMSLIASAMKECSEAKQAVLLNAPEHQKMKEVSEGIASFLRLMPEQVGPLMTMVTSLMGVI
22525	52893	A	22653	115	425	
22526	52894	A	22654	747	1173	
22527	52895	A	22655	1	2709	
22528	52896	A	22656	1	2583	
22529	52897	A	22657	636	1029	APSDQKRDFLVPHGADSAMAKSG*CESGN DLLSSSHMNQLR/A/ESIPE DVIAGASALVLTIFIKFVI AENPQWWQQFLKDHV SILAMN EDEAEALTGESDPLLASDKALDWVDLVLC TAGPIGLY MAGGGDVN
22530	52898	A	22658	1611	3300	QSAWANRHLVDCGRPGNGSDAGVAARSGRNDGTGRCGLCHSCSRYGDHHRQSDRIYRHYDAGRSPSGAVDYG TQRGNRFSRAVYPVGA/RRWR*GPLV/QQFQPENETSAAW\VVGINQPLVDIEAKVDDEFIERYGLSAGHSLVIEDDVAEALYQDVQQQKNLITHQSAGGTIGNTMHNYSVLADDRSVLLGVMCSNIEIGSYAYRYLCNTSSRTDLNYLQGV DGPIGRCFTLIGESGERTFAISP GHMNQLRAESIPEDVIAGASALVLT SYLVRCKPG EPMPEATMKAI EYAKKYNVPVVLTLGTFVIAKNPQWWQQFLKDHV SILAMNEDEAEALTGESDPLLASDKALDWVDLVLC TAGPIGLY MAGFT EDEAKRKTQHPLLPGAI AEFNQYEF SRA MRHKDCQNPLRVYSHIAPYMG GPEK CNI LGRSGWLLYGRGLDKQRLTQYQSKLGAAMVIVAAWCVEDYQVIRLAGSLTARATRLAHEAQLDVAPLGKIPHL RTPG LLLVMDMDS TAIQIECIDEIAKLAGT GEMVAEVTRTGDARRTRFYRQPAQPCG
22531	52899	A	22659	430	586	
22532	52900	A	22660	1	131	

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22533	52901	A	22661	1	1282	MLPAHLDACVTLQKIRWTLS VVDPTLALRVPLPALSIRDDPPL RAYLPGRGALKVIRFDDMDFA TIDGINRMLVDIDTNYLFLPRVT SSTIRCLSVPTRRTVPAVTASGR SVKYYPPDFDPSKIPKLKLPKD RQYVVRLMAPFNMRCKTCGEY IYKGKKF\NARKETVQNEVYLG \LPI\FRFYIK\CTRCLGRDSPFKT DP\ENTDYTM/ESLGATRNFQG* EASWEEEKRV\QK\EREDE/ES LNPNPMKVLENRTKDSKLEMEV LENLQELKDLNQRQAHVDFEG\ MLRQHRLSEEERRSQQQQEEFEQ KTAALLEEARKRRLLEDSDSED EAAPSPLQPALRPNPTATLDEA PKPKRKVEVWEQSVGSLGSRPP LSRLVVVKAKADPDCSNGQP QAAPHPRSPAEQEGGQPYTPDA WRVLPEPTGCIPGQ
22534	52902	A	22662	1	412	
22535	52903	A	22663	298	532	MGSWSLPGRTLWKEKVRFLKS KERTNPGSNFFSFPGSQHTREER SQECLSLPVLPSPYLATRLSLPDS CPLKGRKAH*QRHSEI*LMGFE PGWPGKL*GWIELAFLLGCLHL TLPPLPCPTPLPPKSTKSGCFSLSI ALCFNKQFAVTK
22536	52904	A	22664	1	193	
22537	52905	B	22665	55	281	
22538	52906	A	22666	86	159	
22539	52907	A	22667	63	1036	VRGGLAAGRGRGSAGAAPVVV AAMLGAWAVEGTAVALLRLL LLLLPPAIRGPGLGVAGVAGAA GAGLPESVIWAVNAGGEAHVD VHGIHFRKCIPL*GRVGRALYY GMKLPILRSNPEDQSCYQTEERS N\EETFGYESPIQREGGLTCWSL KFAE\VYFAQSQQKVFDVRLNG HVVKDLDIFDRVGHSTAHEI IPMSIRKGKLSVQGEVST\FTQG KLLPLSFSKGYL*PIPKVCALIYI MAGTVDDVPKASAFAFNPGLEK KEEEEEEEYDEGSNLKKQTNK NRVQSGPRTPNPYALDNSSLM FPILV\AFGVFIPTLFCLCRL
22540	52908	A	22668	1570	1773	

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22541	52909	A	22669	62	454	NKQLNKKRRRTMIALIQRVTRAS/VTVEGEVTGEIGAGLLV/LLGVEKDDDEQKAN/RDAEGQM/NLNVQQAGGSVLVVSQF/TLAADTERGMRPSFSQGHHRIRAQAFYDYFVES/CRQQR*YAQGGLSAEFRLLNS
22542	52910	A	22670	1	1930	MAGKPEYDKTISTSIVLNALNALGVSAEASGRNDLVVKTVEGDRKVSGSAYRETKDRGFHHGTLLLNADLSRLANYLNPDKKKLAAGKITSVRSRVTNLTELLPGITHEQVCEAITEAFFAHYGERVEAEIISPNKTPDLPNFAETFARQSSWEWNFGQAPAFSHLLDERFTWG GVELHFDVEKGHITRAQVFTDSLNPAPLEALAGRLQGCLFSLYNSDLNTVIDNVLRIFPLLLSWISFWLLYSIVPTIRVPNRAIVGAFVAALLFEAGKKGFALYITMFPSYQLIYGVLAVIPILFWVWVYWTCTV TVEGEVTGEIGAGLLVLLGVEKDDDEQKANRRLCERVLYRIFSDAEG\KMNLNVQQAGGSVLVVSQFTLAADTERGMRPSFSKGVIDDIGFNTIESQTRFHQASHLFKRKG\IYRLHFARRRCQQIQRQRQRRRFMQRTAVAITHQQRMKQGILRLWRNWLLWLLILLRRNRLLRLILLWRNRLLRLLILWLRRNRLLWLLILRLRRNWLLRLLILLLRCNRLLRLLYRFNNWRKQRFVWTIIQQRFHWRKFKIIQRERIRPSRLFAGITLLSLRKLTSQFSLCRSICIFCVYGHIMLILFAIALLLCLGEITCQFILLHRIDFIIVVLI
22543	52911	A	22671	377	463	QTISQTTVQSN*NSGLRISPQTAQLHGD
22544	52912	A	22672	129	615	KARQKSCQPVTTDTQCRHTSSSIGKRLAFCQNLTTQIHTESTMKPWILLLVMFISGVVMLLPVLSFWNKDPFLDMIRETEQCWVQPPYKYCEKRCTKIMTCVRPNHTCCWTYCGNICLD/IRRAP*/HQC*TPRFYWPITTVG*RMTIWSKKSAAYFLLGTPTWL
22545	52913	A	22673	3	412	
22546	52914	A	22674	2	390	

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22547	52915	A	22675	180	507	CCGGRARSELCLLNLCIKGAD*I QAW*KFCQWPCERADGRGCRK AER\CPCKGAYSL/YCRESVCC LPSFVNKNSSLCVAHNWGRH CYLWTAADVQFISSHMFPVE HL
22548	52916	A	22676	3	227	GGGRARSELCLLNLCIKGAD*I QAW*KFCQWPCERADGRGS*F DRGAEVCNQTDWQSIRSSQGG RDQRFSTERA
22549	52917	A	22677	567	842	
22550	52918	A	22678	1	1400	MGWGQGPDVQLMNGHERSPS HSPREAKKSGSPLPTDIHCFSPQ SQPAMVITGVPTAPAGASAKM GLCATPITGACPLWLRGFRGWR CEDRCEQGTYGNDCHQRCQCQ NGATCDHVTGECRCPGTYGA FCEDLCPPGKHGPQCEQRCPHQ NGGVCHHVTGECSCEPSGWMLS FPGWRPI*FSKSL*MQGTVCGQ PCPEGRFGKNCQSSECQCHNGGT CDAATGQCHCSPGTYGERAAV PDVRK\QDCECPVGTYGVLC TCQCVNGGKCYHVSGACLCEA GFAGERCEARLCPEGLYGIKCD KRCPCHELENTHRGDDREKA GHILLIALEVQYTEISNCIEKSQE ASCYDIRMLKQPYGETNT EEELAVNYVYSIYASKEQIRYKHGR FANGHVKELEMMEGPSRIAGSGG EKYKRDEEKNTLLRGQNRGGR GKNPKKTKAWVKIQQQNIEIS GVGADRKRFFREK

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22551	52919	A	22679	I	2210	MEQKGEFKNDTLIYEFFHIVAK PHPLPIKSSTYTTFQSARVTRFF LDAEKECRCQEGQVEALIAM GGTCQGTQRLSTAGESESATH MREPAVQCRRDSQCVSVLAGR RRFFQGAASPLHPASVALTQLH VRWASTATIGQVSGFPGKIRVS PTTNLGDSDYIFTASHWGLGHY GPAVHVHSQGGIDERGSNDSG RLYVTNPCCGNVPSWTPNIDRLA EDGVKLTQHISAASLCTPSRAA FLTGRYPVRSGMVSSIGYRVLQ WTGASGLPLTNETTFAKILKEK GYATGLIGKWHGLNCEASD HCHHPLHHGFDHFYGMPSLM GDCARWELSEKRVNLEQKLN LFQVLALVALTLVAGKLTHLIP VSWMPVIWSALS A V L L A S S Y F VGALIVHADCFLMRNHTITEQP MCFQRTTPLILQEVASFLKRN HGPFLFVFSFLHVHIPLITMEN LGKSLHGLYGDNVEEMDW GRILDTLVEGLSNSTLIYFTSD HGGSLENQLGNTQYGGWNGIY KGGKGMGGWEGGIRVPGIFRW PGVLPAGRVI GEKVVHDDPLLFDL HILTPASEPVFYQVMERVQQAV

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22552	52920	A	22680	185	2091	GSTERDNMLHLHHSCVCFRSW LPAMLA VLLSLAPSASSDISASR PNILLMAADDHGVDIGCYGN NTMRTPNIDRLAEDGVKLTQHI SAASLCTPSRAAFLTGRYPVRS GMVSSIGYRVLQWTGASAGFT TN\ETTFAKILKEKGYATGLIGK WHLGLN CESASDHCHPLHHG FEHFYGM PFSLMGDCARWELS EKRVNLEQKLNFLFQVLALVA LTLVAGKLTHLIPVS WMPVIWS ALSAVLLASSYFVGALIVHAD CFLMRNHTITEQPMCFQRTTPLI LQEVASFLKRNKHGPFLFVSF LHVHIPLITMENFLGKSLHGLY GDNVEEMDW MVGRILD TLDV EGLSNSTLIYFTSDHGGSLENQL GNTQYGGWNGIYKGGKGMGG WEGGIRVPGIFRWPGVLPAGR IGEPTSLMDVFPVVRLAGGEV PQDRVIDGQDLLPLLLGTAQHS DHEFLMHYCERFL\HAARWHQ RDRGTMWESPTL*PPCVSSQEG AGAC\YGRK\VCPCFGEK\VVHH DP\PLL\FDLSRDPSETHILTPASE PVFY\QVMER\VQQAVWEHQR TLS PVMQLDRLGNIWRPWMQ PCCGPFPPLCWLREDDPQINV C SEKLEPRFLNFVTQIETNQLAM
22553	52921	A	22681	209	392	
22554	52922	A	22682	1	513	
22555	52923	A	22683	3	613	
22556	52924	A	22684	1	2115	

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22557	52925	A	22685	53	1966	VGQPRGLRTLEKLTASVAGGA ANFFGDIERDLGPRDTSRGIRG GNLGDRGCSAEMAYASWQR WSPVEWARWMWTAVTSSGDS SLLVLQGDSGKRSSDSEEA FET PESTTPVKAPPAPPPPPEVIPEP EVSTQPPPPEEPWGSETVPVPD GPRSDSVEGSPFRTQAHFSGVF DEDQPIASTGTDILDFDNIELVD TFQTLEPRASDAKNQEGKVNT RRKSTDSPISKSTLSRSLSLQA SDFDGASSSGNPEAVALAPDAY STESAKRVVPPASGGGRVQNSP PVGRKTLPLTTAPEAGEVTPSD SGGQEDSPA KGLSVRLEFDYSE DKSSWDNQQENPPPTKKIGKKP VAKMPLRRPKMKKTPEKLDNT PASPPRSPAEPNDIPIAKGTYTF DIDKWDPPNFNPFSSTSKMQES PKLPQQSYNFDPDTCDESVPDF KTSSKTPSSPSKSPASFEIPASA MEANAV\ DGDGLNKPAAKKKT PLKTMVEDVMSVCSLFDTFRV KKSPKRSPSLDPPSQDPTPAATP ETPPVISA VVHATDEEKLAVTN QKWTCMVTVDLEADKQDYPQPS DLSTFVNETKFSSPTEELDYRNF YEIEYMEKIGSSLPQDDDAPKK QALYLMFDTSQESPVKSSTVR

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22558	52926	A	22686	662	2927	HLRRKRNLPRREGLSPALLEET PLPEAVGPKAACPLDSESAEGV VPPASGGKRLFTTAPEAGEVT PSDSGGQEDSPAKGLSVRLEFD YSEDKSSWDNQQENPPPTKKIG KKPVAKMPLRRPKMKKTPPEKL DNTPASPPRSPAEPNDPIAKGT YTFDIDKWDPPNFNPFSSTSKM QESPPLPQQSYNFDPDTCDESV DPFKTSSKTPSSPSKSPASFEIPA SAMEANGVDGDGLNKPAAKK KTPLKTDTFRVKKSPRSPLSD PPSQDPTPAATPETPPVISA VHATDEEKLA VVTNQKWT CMTVD LEADKQDYPQPS SDLSTFVNETK FSSPTEELDYRNSYEIEYMEKIG SSL PQDDDA PKKQALYLMFD T SQESP VKSSP VRMSE SPT PCSGS S FEE TGS PLR NTAA \\KNQ \\HPVP TRDWAP* PRSSH LAGCQRKSSQ E/VELGGP WGLGH PFQEGDLKF TASPR GSFASAD ALLSRLA HPV FSL/CG ALDYL\\EP NFRQKR NPP LFA QKL QREA\\V HPT DVS\\SKT ALYS RIRT TEVE KPA GLLF FQQP DLV DSAL QIAR AEI\\T KERE VSE WKD KYE S\\R EVM MEMR K\\LA EYE KTIA QMIE DEQ REKS VS\\HQ TV QQL VLE KEQA\\L ADL NSVEK \\S LAD LFRR YEKM KEV LES FRK NEE VLK RCA QEY LSRV KKEE Q RYQA\\L KVHA\\E EKL DRANA EI
22559	52927	A	22687	374	1268	AETNMVWYDW MRPSHAQLHS DYM QPLTEAK AKSKNK VRGV QQLI QRRLIK SPAE IERMQIAG KL TSQAFI ETMFTSK APV EEA FL YAK FEFECR ARGADIL AYPPVV AGGN RSNTL HYV KNN QLIKDG EMV LLDGG CESS CYV SDIT RTW PV NGR FTAP QAE LY EAV LEI QR DCL ALCF PGTS LENI YS S MML TLI GQ KL KDLG IMK NTQ GK* CL/RR LLE/Q YCP PHV GHY LGMD VHD TP DMP RSL PLQ PGM VIT IEPG IYI PEDD KDA PEK FRGL GVRI EDDV VVT QDS PLIL SADCP

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22560	52928	A	22688	329	1389	RIWKTQMRRMKKMMMM MMRTTLLFFQQESQEAIFPF LFPMCPEGCQCYSRVVHCS LTSVPTNIPFDTRMLDLQNN KEIKENDFKGLTSYGLILNN KLTKIHPKAFLTTKLLRLYLS HNQLSEIPLNLPKSLAELRIHEN KVKKIQKDTFKGMNALHVLEM SANPL**/SMGIEPGAF*RG*RCS /YIRIAEAKLTSV\PKGL\PPTLLE LHLDYKNISTVELEDFKRYKEL QRLGLGNNKITDIENGSLANIPR VREIHLGNIKLKKIPSGLPELKY LQIIFLHSNSIARVGVNDFCPTV PKMKKSLYSAISLFNNPVKYWE MQPATFRCVLSRMSVQLGNFG
22561	52929	A	22689	1	4608	
22562	52930	A	22690	1	465	
22563	52931	A	22691	1	1542	
22564	52932	A	22692	1	4226	EAVLCSSRGRPDSSMPDCCR NALEARSCQSMTSLFSNTVSPTQ DGTSPLRRQSSFAKPLRALY DLIAPMEGGVVESTEPLGTSR SGFASGTALFWLGDNGKAASP PGVSVSSLENEDDNTQCNRLEQ GYREAAVPDWTQDLALCLLPT LQSLKARTAPHLCVPSSCYKA WYTLAVSKVSGMVEGKAWIIL LLAASTHALLQRPQEGDITPL AGSRAAVSCQARPFSTFGLM HSSGPVGRHRQLILVLE
22565	52933	A	22693	2	4197	ALDFPGRRFRPTASFIWASVL FIRHEAEVSTDYKLSLFDLQTSS YQALQRVLVSLGHDEALAVA ERGRTRAFADLLVERQTGQQD SDPYSPVTIDQILEMVNGQRGL VLYYSLAAGYLYSWLLAPGAG IVKFHEHYLGENVENSSDFQA SSSVTLPTATGSALEQHIASVRE ALGVESHYSRACASSETESEAG DIMDQQFEEMNNKLNNSVTDPT GFLRMVRRNNLFNRSCQSMTS LFSNTVSPTQDGTSS
22566	52934	A	22694	1	618	
22567	52935	A	22695	1	3528	

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22568	52936	A	22696	85	1193	RPIEGQLGTCHPGSEPTIRWRA PGKGLRLYTHPPTSDIAGRTGA AASFPA PLHLPREPRAGVDGTD AERILYPRRA APAASGVGSRPA GEAVRADEAGAAGLGGFQSER NRSWGGESLGSRQPQKMPAFN RLFPLASL VLIY*VSVCFPVWGE VPLENGGRARANPMKLCISC MKREEVEATTVVEWFYRPEGG KDFLIYEYRN GHQEVE SPFQGR LQWNGSKDLQDV SITVLNVTL NDSGLYTCNV SREFEFAHRPF VKTTRLIPLRV TEEAGEDFTSV VSEIMMYILLVFLTLWLLIEMIY CYRQVSKAEEAAQENAPGNSL EGGSQGLQINSTQDGLVTGQQ DVGSHRAREHMPDFEEPPSAK
22569	52937	A	22697	277	527	VRVSWEYFCAPGPAGSPAGPG RGEEKQRLGLLIRDARSPAPPG PPVGSVRG/PKPAPAGR VRAKG RRA*GAACSLAAGAWVEPGI

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22570	52938	A	22698	226	2268	SVKNYTKCHVRNEQICNKLTSC KCSCLNLCNCQWDQRQQECQAL PAHLCGEGWSHIGDACLKVNS RENYDNAKLYCYNLSGNLASL TTSKEVEFVLDEIQKYTQQKVS PWVGLRKINISYWGWEDEMSPF TNNTLQWLPGEPNDSGFCAYLE RAAVAGLKANPCTSMANGLVC EKPVVSPNQNARPCKKPCSLRT SCSNCTSNGMECMWCSSTKRC VDSNAYIISFPYGCQCLEWQTAT CSPQNCNSGLRTCGQCQCLEQPGCG WCNDPSNTGRGHICEGSSRGPM KLIGMHHNEMVLDTNLCPKEK NYEWSFIQCPACQCNGHSTCIN NNVCEQCKNLTGKQCQDCMP GYYGDPTNGGQCTACTCSGHA NICLHTGKCFCTTKGKGDQC QLCDSENRYVGNPLRGTCYYK TLIDYQFTFSSLQEDDRHTAI YFIVNPQSNKNLHISINASNNF NLNITWPC*STAGTISGEETYIV SKNNILEYRDSFSYEKFNFRSNP NITFYVYVSNSFWPIKIQIAFSQ HNTIMDLVQFFVTFFSCFLSLLL EAAVWIKQTCWASRRREQL LRERQQMASRPFASVDVALEV GAEQTEFLRGPLEGAPKPIAIEP CAGNRAAVLTVFLCLPRGSSGA PPPGQSGLAIASALIDISQQKAS DSKDKTSGVRNRKHLSTRQGT
22571	52939	B	22699	252	360	
22572	52940	A	22700	1	84	
22573	52941	A	22701	1	404	
22574	52942	A	22702	86	292	NPEMRCREFCLPSCRPELALE* G*SVRDVA*AQMCSVVWAGRP LGFAA*S*GSGHSCGRCSIWGE CWG
22575	52943	A	22703	82	379	HTLQPFISMGSLTMKFKVISEGP MD*RPHPKVRPMT*HSTPAPAN FMGHFFWKIMICTDRTEVATLV AGVVSGASVGGKSPPYRKWNS PEPDVKGPRVL
22576	52944	A	22704	2	382	

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22577	52945	A	22705	1	479	HMPSGETAPLRIVDTGTGTGTV\AYAPTE\LGLHEMHIKYMASHI LESPLRFYVTTPTVPSVSYGPG LVYGVAN/NTATFTIVTEDAGE GGLDLAIEGPSKAEEPRPRLSRA PGVDGAGASPGLGEDTGPQAP GLQVLTERIPGPSAPTPEFLSVG VSAVC
22578	52946	A	22706	1	590	
22579	52947	A	22707	171	406	
22580	52948	A	22708	269	2477	
22581	52949	B	22709	167	7472	
22582	52950	A	22710	1	520	
22583	52951	A	22711	2218	2472	
22584	52952	A	22712	722	1555	SRNWYEALNNTWGREDICVVD GWQSFRRQDYAFLQERGSGGD LWSSTLAQAMTLVESRHPRHQ ALSTQLLDAIMPYCGNTLRLGV TGTGAGKSTFLEAFGMILLIRE GLKVAIAVDPSSPVGGTGSILG DKTRMNDLARAEEAFIRPVSS GHLLGGASQRARELMLLCEAAG YDVVIVETVGVGQ\SETEVARM VDCFISLQIAAGGADDLQGIKKG LMEVADLIVINKDDGDNHTNV AIARHM/YESALHILRRPPMHR VPRNPKVNLPGTAMANLLS
22585	52953	B	22713	381	425	
22586	52954	A	22714	1	1185	
22587	52955	A	22715	1	3009	
22588	52956	A	22716	22	527	YEGIVMKPLIIVNPADCIGCRT CE\VACVVVAHPSEQELNADVFL PRLKVRQLDSISAPVMCHQCEN APCVGACPVGALTMGEGVVQT NSARCIGCQSCVSACPFGMITIQ SLPGDTRQQIVKCDLCEQR*EG PACVESCPTQALQLLIERELRRV RQQRIVVTGENPL
22589	52957	A	22717	187	325	

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22590	52958	A	22718	1	2240	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRFV TLEMKYGRIMLDTAKIIDEQDV PTHILSKLTFTLRNHPGVVMK NFEVLQPLQNSLSGLPLWVSER ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPPLRFRLQIGEHFMTIVDLP GVGESGVRDTEYAA\YREQLP RLDLILWLIKADDRALATDEHF YRQVIGEA\YRHKMLFVISQSDK AEPPTSGGNILSTEQKQNI SRKIC LLHELFQPVHPVCAVSVRLHPV VALLQQFR TD DERTHRYHYDS QHRLVDYTRTQYEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGWGDGDRL TTIQNDRSRIQTIYQPGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVVFPPLVQMLD RLESEILADR VSEESRRWLASC GLTVEQMQNQMDPTEGTTAW Y/AEYDEWGNNLNEENPHQLQ QLIRLPGQQYDEESGLYYNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISIDPLGLSMWE VARQMNAIAASKLPEGFHIGINFS ASHIISPTFVDECLNFRDSFTRR DLNLVLEVTERDLLNVDESLVQ RLNILHENGFVIALDDFGTGYS GLSYLHDLHIDYIKIDHSFVGRV NADPESTRILDCVLDLARKLSIS

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22591	52959	A	22719	1	2301	MALTSGVHTGEKPYKCAQCEE AFSRKSELIIHQIIHTGEKPYECT ECGKTFSRKSQQLIIHQRTHTGEK PYKCTKCGKSFCCQQSHLIGHQR IHTGEQPYLGLSVAERPKEYED DRAALKMAAPCGNSSREQPCCFL NKASEDAERAKPPS*EPGRLRT P*VAQPH*VPHFMATWVRKHP VHDRVQFRLHGQIRELNWDVVR PEQFTGVATNCGITYPQGGWL CPAELTRNVLELAQQQGLQIYY QYQLQNLSRKDDCWLLNFAGD QQATHSVVVLANGHQISRFSQT STLPVYSVAGQVSHIPTTPELAE LKQVLCYDGYLTPQNPANQHH CIGASYHRGSEDTAYSEDDQQQ NRQRLLDCFPQAQWAKEVDVS DKEARCGVRCATRDHLPVGN VPDYEATLVEYASLAEQKDEA VSAPVFDDLFMFAALGSRGLCS APLCAEILAAQMSDEPIPMDAS TLAALNPNRWLWVRKLLKGKAV KAG
22592	52960	A	22720	1021	1734	
22593	52961	A	22721	1247	2412	RRSHHAANLDIIRMPQTRQVT LPDPELHPDSTLSMWPD/NRIAR DAHYLYRYDRHGRLTEKTDLIP EGVIRTDDERTHRYHYDSQHRL VHYTRTQYEEPLVESRYLYDPL GRVAKRVWRRERDLTGWMS LSRKPKVTWYGWDGDRLTTIQ NDRTRIQTIYQPGSFTPLIRVET ATGELAKTQRRSLADALQQSG GEDGGSVVFPPVLVQMLDRLE SEILADRVSEESRRWLASCGLT VEQMQNQMDPVYTPARKIHLY HCDHRGLPLALISKEGTTEWCA EYDEWGNLLNEENPHQLQQLI RLPGQQYDEESGLYYNRHRYY DPLQGRYITQDPIGLKGGWNFY QYPLNPVTNTDPLGLEVFPRPFP LPIWPWKSPAQQQWYPTFCC
22594	52962	A	22722	1	4767	

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22595	52963	A	22723	668	1922	YPHADSPECWLSSSSERGKSSV TADLSRPRRLRPIPTCHGKPIAC TTTKAKNAFRPIAGASATGRLA NSPIIILPNAAIRQEFGITLDPEEV FTFQGVKL ^Y RYFPDCVRSRN EAGILVEQILSTLFSVGEHFSLK RAPFFKVP ^S LSFYAFGGLTTG VVR ^R NGNHGVNTPARKIHL ^Y CDHRGLPLALISKEGTTEWCAE YDEWG ^N LLNEENPHQLQQ ^L IR LPGQQYDEESGL ^Y YNRHRY ^Y D PLQGRY ^I TQDP ^I GLK\GGWNFY QYPLNPVQY ^I DSMGLASKYGH LNNGGYGARP ^N KP ^P TPDPSKLP DIAKQLRLP ^P Y ^I DQASSAHNVF KTFFRALSPYDY ^T LYCRKWVK PNLTCTPQDDSQYPGM ^D TKTA SDYLPQT ^N W/VPVSSIVSCTTGV VP*VVCQWVFAWPPDISHRRTG
22596	52964	A	22724	25	510	RITDFGVKKIIRVGSCGAVLPHV KLRDV/VI/GMGAC/TDSKVNR ^I R ^F KGQAFGGIAD ^F AMGRTAVD PGKALGINARVGNLVSADLFYS PDGEMFDVMEKY ^G ILGVEMEA AGIYGVAAEFGAKALTICTVSD HIRTHEQTTAAERQTTFNDMIKI ALESVLLGDKE
22597	52965	A	22725	415	759	HRRRIVDDTGIFRPRNTAQQLR QRPIAMSASGVVQIILEGHWRT HSLRNGFHRGFRL*SSPKVGMQ HGSRQVDHRTQRALRFFRQPGI DFLRPVFTP ^R RQRLAATNHFSR FVEH

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22598	52966	A	22726	2	2329	GTLPGCGAMHTCPSPATHLV RRRIVRLPACVVTRANVPTPSR PVNATIGAFHSG*MASQGRRLS AQYPWSPFQYA\ARPVPTVPGR LVFTGTSKAPKISVMGPGMGIP SCSISAKELITDFGVKKIIRVGSC GAVLPHVKLRDVVIGMGACTD SKVTRIRFKDHAFAAIADFDMV RNAVDAAKALGIDARVGNLFS ADLFYSPDGEFDVMEKYGIL GVEMEAAGIYGVAAEFGAKAL TICTVSDHIRTHEQTTAAESQTT FNDMIKIALESVLLGDKEEDRVI RFGKARATRYALLRPYRGIERIP VWRVDDTGKAHKFADIRLCWP QGSCLDVAKAREVIRGSQPLPA WCENWAQEVDARLTKEAQSA LRPVINLTGTVLHTNLGRALQA EAAVEAVAQAMRSPVTLEYDL DDAGRGRHRDRALAQLLCRITG AEDACIVNNNAAAVLLMLAAT ASGKEVVVSRGELVEIGGAFRI PDVMRQAGCTLHEVGTINRTH ANDYRQADQFQFDDFVMAFTQN INGPTQNTRALHGGHKRPDFLP LLGAFHGAIIDILAPGGLHGYSL PSSFFHALALSAAPGKRCKLS VHLPFWGLKDGGPLLTAPLGG ALVGIVGGVGGSNLTFPFHTNF LNVRFVIRRISHRHHFYRIAKL LMNGAQGSNMLIAAVAGVPHQ NGHFPFTVADRFAIVLSEGSIRV
22599	52967	A	22727	1	702	
22600	52968	A	22728	876	1318	RCHLANASPAAGSHAPSPDSLS/ KIR/QEVG/PPLP/PLLALIATPP RTSQPLSPLISSSSPSSPASPVGQ VSPFRETPVPPAMSPWPEDPRR ASPPDPSPSPSAASASERVVPSP LQFCAATPKHALPVPGRLPPCA SGHAMPCWRAKIK

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22601	52969	A	22729	485	1455	PVVQRARNASSCQPFSTSvwAI PSISATSVPMCGATHSILSPKKS TVSDRIGSMQISFFPLSRAEK* ESPCSSDAFHAIHSVLSGLALHS TTTSLCSSTSGQLVCC**TSLPPT TYGMIACAAPVE*SPRCPV*PPA SAI*RCNNVEALCSTPWERQP*E PAK\SMPDHKPHECVVVVG*D PAPHPNSREQIHPAHECLAGFP VTQESLFAPLEIVPAYCCEPGRE PRSARSFPFAPRELT*VQLELGT GL*RETLDLVVSAGWA*ARRIS GAVTATPETGTLCLQDLSGAECH YRETGVELP*RSRPVGHGSSR HSRRWRT
22602	52970	A	22730	814	5001	PENSSHRPKPIIPMIASTLINANQ NSVSPYKRTFTRLTALMIKKAA AAQIHVGTSQNYWRKLDNFNS PGGSSPVENSDCSTNSRLSFSPE NILIQNQDIVREAAVQGDGQKQ RQPQATDLDSSGTHGSEMLPAT EVTVSGGFSEETSCGDTGRSG GEALAVANDSTSTPQNANGLW KLKSTTPGGALPECFGTTDTTF SAFCRKHGETQDTSQSSLPGTL HCYTGIREGGDDTEVESEAFSC SEGSEQQDAPD
22603	52971	A	22731	34	102	
22604	52972	A	22732	584	893	QKLLPNRMGHPVFKSSQDPV LLSRIAWKDASTVTWVIEQDPV LRRRRRRTRRRRTRMRRRRGR* */SKRRRMR/GRRGRR*CRRRRR RSSRSRPTRRQRNRNQV
22605	52973	A	22733	2	269	IGKLYWFMPPSANLALRELGIV LFLSVVGLKSGLSEWIGY GALIT AVPLITVGILARMLAKMNYLT MCGMLAGSMTDPPA*PRFQTN DREEQHDPQLPQREVGAWRHK PVQLAD

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22606	52974	A	22734	3	958	RCYSLLSRAPHGIYISIAERV/*IRLNSANFTLNSLLPAEKKLAEEFAVSRMTIRKAIDLLVAWGLVVRRHGSPTYLVRKDVLHQTASLTGLGEVLKRQGKTVTSQVLIFEIMPAPPAAISQLRIQINEQIYFSRRVRFV\EGIPLMLEDSYMPVKLFRNLSLQHLEGSKFYEIEQECGILIGGNYE\SLTPVLA\DRLLARQMKVAEHTPLLRTSLSYSESGEFLNYSVMFRNATQI\QGWRSHFR\RLHPKKSLTVPPERAPPVFGGLIMRKNHQSQRIDSGVRERRRTAGWMKIISKRQRRRIGHGTCQHPAHGQVIHFG
22607	52975	A	22735	2	285	GDEM\TTSTLQKAIDLVTKATEEDKAKNYE\DKAKNYEE\ALR\YQHPVEYFLHAIKYEAHSDKAKESIRAKCVQYLDRAEKLKDYLRSKEKHGKLCLKDRV\T
22608	52976	A	22736	545	791	
22609	52977	A	22737	249	1574	NHK\AIDLVTKATEEDKAKNYE\EALR\YQHAVEYFLHAIKYEAHSDKAKESIRAKCVQYLYRAEKLKDYLRSKEKHGKKPVKENQSEGKGSDSDSEGDNPEKKKLQEQLMGAVVMEKP\NIRWNDVAGLE\AKEALKEAVILPIK\PHLFTGK\RP\W\RG\NLLFR\PPGT\GNSNRPKAGAPKATNSTFFS\SS\SDV\KSKRLGETEKLV*NLF\ELARQHK\PSI\I\DEV\DSL\CGSRNENES\QAARRIQNGSSLVQIAGGLGINNDGDSGFFGATNIP\WVLD\SAI\VRKV*KTKFYIPLPEKACPRPD\VS\RL\H\LG\STPHN\LRV\ATFH\KLARKTEGYSGADISIIVRDSL\MQP\VRKVQSATHFKVCGPSRTNPSMMIDDL\TPCSPGDPR\AMEMT\WMDVPGDKLLEPVVCMSDMLRSLATTRPTVNADDLL\KVKKFSEDFGQES
22610	52978	A	22738	52	567	
22611	52979	B	22739	1	1293	
22612	52980	A	22740	443	1027	
22613	52981	A	22741	2077	2430	
22614	52982	A	22742	1	504	

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22615	52983	A	22743	3244	3947	RNEITPFRAMMIIRRMAHRFQT EEIKRISFIKRRVGNKDEINPGA RWRRFHDDGITFLRLLDAGLT PSGKTIVHPLARQRRGLVKIQFL R*LLAKLTRQPLLPLQPVTLR CLNPRLRRQRKIRMPAGTKWQ RLCPLIGDR*RHRQRSAVYALS VRHNPVHHILRKNGDMYSFPIT IGNNVWIESHVVINPGVTIGDNS VIGAGSIVTKDIPPNVVAAGVP CRVILEINDRK
22616	52984	A	22744	742	1158	
22617	52985	A	22745	439	2882	PDWQAFQSPPFPASLIIHPKPAK LPGWLCIVQWSLLAITRTPTPV RWAQQTTETVGLVVGDVSDPF FGAMVKAVEQVAYHTGNFL GNGYHNEQKERQAIEQLIRHRC AALVVHAKMIPDADLASLMQ MPADKQCESIPDQNNQGTQY PRGKEPKLLRRLMHMNRKVGP RGPRRMLLRYLDVEFLSVALA VVHLGPQGTCRFLVARALV VAVSEMDKSLSAQAQIYFASSN GPVPDLAYQVDFPRLEIGL*F\E YVDTGAETTLVPGDVLYVPAG GWNFPQWQAPATTFSVLFQKQ QLGF/SAVVQWDGKQYQNLAK QHVARRGPRIGSFLLQTLNEMQ MQPQEQQTARLIVASLLNHC DLLGSQIQTASRSQALFEAIRDY IDERYASALTRESVAQAFYISPN YLSHLFQKTGAIGFNEENLSHTR LGHA*TLLKGYDLKVKEVAHA CGFVDSNYFCRLFRKNTERSPS EYRRHRRLLHDNRICQFKPTDN PENPDRYLTFRRIDKETSSLPKK VAPSCKRLSVSRSSPKPSISIRRC MRLMLIEGRSSFIHPDKDVDG FHPYNVGRLCQRAPRLRPCTPR GIVTLLERYNIDTFGLNAVIGA SNIVGRPMMSMELLAGCTTTVT HRFTKNLRHHVENADLLIVAV GKPGFIPGDWIKEGAIIVMMMSGI NRGVATDASCFCPLVPFANRVSG
22618	52986	A	22746	2	126	
22619	52987	A	22747	1	465	
22620	52988	C	22748	78	308	

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22621	52989	A	22749	1	2797	MEHPPVLAQQRVALPSSRSEPE LFLNPPTDEETEAHRGMYLDQ GPRTKDWIPVAPGVREPSPLGP GPSSLWLLVVGGTVEEGSRKH RPTCKKDFTSKTVDQAPTLCA RHQMLNIQFLISDRDPQCNLHC SRTQPKPICASDGRSYESMCEY QRAKCRDPTLGVVHGRCKDA GQSKCRLERAQALEQAKKPQE AVFVPECGEDGSFTQNTSCIHSS VYQIGENSSLTFLEKREESGHL QRDWFPPLWFPRKARVI
22622	52990	A	22750	1	5295	MNLNQEEIPDLPEKEFRRRLVIKL IREGLEKGKAQCKEIQKMIQE KREIFQEIESLKKKPPKIQKTL LLKMQNALESLSDRTEQAE SELEDKVFKLTQSNKDKEK KTRKYEQSQLQEVWSYV KRPNLRIG VPEEEENTKSLENILGGII ENFP SFARDLDI QIPEAQRTTGK LIAK RSLLRHIVFRLSKV KMKERILR AVRQKH QATVSQ QKNKAG GITAL PDFKLY YKATVSQ QKNKAG GITAL PDFKLY YK
22623	52991	A	22751	1	891	GSPFEVMPRDDVFFIVDV KI*DI GVYSCTAQNSAG SISANATLTV LETPSFLRPLL DRTVT KG ETAV LQCIAGGS PPP KLN WTK DD SPL VV TERHFFAAG NQL LIG G DS V R L S V I P T C D S P Q M T V L H L D D G W G H C G L Y V I I A V V C V G T S L V W V V I Y H T R R R N E D C S I T N T D E T N L P A D I P S Y L S S Q G T L A D R Q D G Y V S S E G S H Q F V T S S G A G F F L P Q H D S S G T C H I D N S S E A D V E A A T D L F L C P F L G S T G P Y V F E G K C V W A Q N P F
22624	52992	A	22752	1	2947	MSAPSLRARAAGL G L L C A V L G R A G R S D S G G R G E L G Q P S G V A A E R P C P T C R C L G D L L C S R K R L A R L P E P L P S W V A R L D L S H N R L S F I K A S S M S H L Q S L R E V A G N R I V E I L P E H L K E F Q S L E T L D L S N N I S E L Q T A F P A L Q L K Y L E L N R N K I K N V D G L T F Q G L G A L K S L K M Q R N G V T K L M D G A F W G L S N M E I L Q L D H N N L T E I T K G W L Y G L M L Q E L H L S Q N A I N R I S P D A W E F C Q K L S E L D L T F N H L S R L D D
22625	52993	A	22753	2	417	

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22626	52994	A	22754	1	262	VLDIGS/SLTVPDEF SKQE/RAD GMWWKQLVAGAVAGAVS/RT GTAPLDRLKVFMQIKRAILGQQ ETLMCRSASW LAPWLVPQPNH HLPYG
22627	52995	A	22755	1	762	
22628	52996	A	22756	1	1527	RLAAAGADPAGSRGGGRGSREA PTEAACRASPPP RAGAMRGSP GDAERRQRWGR LFEE LD SNKD GRVDVHEL RQGLARLGGGNPD PGAQQGISSEG DADPNGGLDLE EFS RYLQEREQ RLLL MFHSLDR NQDG HIDVSEIQQSFR ALGISIL LEQAEKNFAQA/VDRDGTMTID WQEWRDHFL LHSLEN VEDVLY FWKHSTVLDIGECLTV PDEF SK QEKL TG MWK QLAAGA VAG AVSRT GTVPLDRLK VFM QVHA SKTNRLN ILLGGL *SMVLEGGI RS LWRGNGINVLKIA PESA IKFMA YEQIKRAIPG/E*ETLPVLERFVA GSLAGATAQTI NYPMEV LKTRL TL RRTGQYKGLAGL RRG GILER EGPRAFYRGYLPNV LGIIPYAGI DLAVYETLKNWWLQQYSHDS ADPGILVLLACGTISSTCGQIAS YPLALVRTRM QAQASIEGGPKL SMLGLLRHILS QEGMRGLYRGI APNFMKVIPAVSISYV VYENMK

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22629	52997	A	22757	1	2127	MDQSGLLALRAAVGAVVGSTL AVDIGILVKDWHPRPLGGKHC QLLGAFRCRQHRRGKEERRGE TKEKKGERENERGKRRRIEGER DKYVKENEKQTCVQKERHSCT GNSPNHMATVQAERGALDSHG GWHPWDYCAVQQGRYHQLLL TKEEIEVQRSKKMCLLQAFLIC CQKSHFLGPGCTRSMVPASASG ESLKLLPLMVEDEGEPVTERE\R KREGERERGRERERRRRRK RRRKRRRKRRRRRRRG*EFLS LG*NERGKRRRIEGERDKYVKE NEKQTCVQKERHSCTGNSPNH MATVQAERGALDSHGGWHPW DYCAVQQGRYHQLLTKEEIE VQRSKKMCLLQAFLICCQKSHF LGPGCTRSMVPASASGESLKL PLMVEDEGEPVTEREQEEGGGE RERERERKKEKEKEKEKEEEK EKEKEKEEERIRVPLPRVELRT NIAAKQVGNTILDVAAPADHPS ESSCVYVRFVIKIPVAASFRFKK SYVTNNVESCEDGIHYFWKSH MHSENSCSCKLPCPPHLPAAR LGDALEPLLPTMRRQRQCQNT GDCDGRRQIGTRETEMHRDTSL VAVKTQVDTSRREGMGEVEPNS CFWRDTHMASGVGAafeelph DGTCDCECPDEAPGAEEVCREC GFCYCRRAEAHRQKFLSHHL AEYVHGSQAWTPPADGEGAGK
22630	52998	A	22758	348	881	WRQPRWPHHQACLWQRAGSS YSQHKDPHFTSFSTPRAVQNF GFPCPFLRETTTLVLIPSVPLTDP GSFYRAWSFQCGPRSPRPLLGR TLSQKFLRLRGRPRRPMSTL TPF*STRIFERAFCQVMGAESGG RIEKTLCKRSLGPLMEPRV
22631	52999	A	22759	1	347	MVPASASGESLKLPLMVEDER EPVTERE/REKGRGREREGERE KEREGERERERGERKGERER RRG*QPPFHNRFSEGQGRSFLCS RRPRVSRRGHTSRGPARVKA RRGLG
22632	53000	A	22760	145	258	PENGLIGLS*KIVLSLNIPVNEN DMKVDEVLYEDSSTA

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22633	53001	A	22761	1	1479	MALKEIFCPVRETETCT\INCGR ISPSILHVGLPYPSTPNVKPERE GCGGGVSGNSKQPGALETAESI GKKEGRREEGSRPESASSLSLLL SLAYDVKSAQICTRIHSSVPLE AVYPGYIHQSIIINQADLSALAPY DPCVCQIHKYHGAYNCLQYSV QNTLYSPTTEQYKRCQAPWVL PAIFTIPASGAAASAVPVRAQA QGGQAAGQRRRLATAPLTGEG EPDHGDRTRAGSGQPEARPRIH LGAARGGDTRGRPGRRGRDW TRLGREMAAAAVSSAKRSLRG ELKQRLRAMSAEERLRQSRVLS QK\VIAHSEYQSKRISIFLSMQ DEIETEEIKDICQRGK\CFIPPV RFSRAITMDMVRIGSPPEGNFFN FPKTSWEYSLRLGEG\DVREEG LVPPGGL/EILILPCPQALGLDQ NHGQPRLG\RGQGAYL*CLS*K RLFCSHSGKLKPPTPPGGWLFK EQICPPRSPVNENDMK\VDEVL
22634	53002	A	22762	1	813	
22635	53003	A	22763	1	368	
22636	53004	A	22764	327	4281	SASASRCDPGSGSRREEEEELQ WRRRRRRRRRRRRRRRRQRQRA AAPAAPAGGIEAVNMASASYHI SNLLEKMTSSDKDFRFMATND LMTELQKDSIKLDDDSERKV KMLKLLEDKNGEVQNLAVKC LGPLVSKVKEYQVETIVDTLCT NMLSDKEQLRDISSIGLKTIGE LPPASSGSALAANVCKKITGRL TSAIAKQEDVSQLEALDIMAD MLSQRGGLLVNFHPSILTCLLP QLTSPRLAVRKRTIIA
22637	53005	A	22765	2	271	
22638	53006	A	22766	299	451	IVALFRSLVRHLRGTMAMESTA TAAVAAEL/VSADKIEDAPAPST SADKVES

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22639	53007	A	22767	1	1122	MATESTATAAIAAELVSANKIE DVPAPSTSADKVERIENGVLGN TLDGVHVEEEGEKTEDESLVE NNDSIDEEARKELRQVYDSM GEKEEAKKTEDKSFAKPETDKE QDCEMEKGGRGREDMDISESAEEP QEKVDLTLGWLTEISEGAKGG GAPEGPNEAEVTSGKPEQEVPD VEEKSVSETDVQKECREKGG WEKHREVIVSIEEKPKVSEEQP VVILEKQGTAVEVAAESLDPTV KPVDVGGDEPEEK/GTVPGSLR PSPCRDPLPAGLGLWVQLSV** GSGTVQQIY*SH*EENGCTKRA GEGG*RIVC*IQERN*GTEGTAT RNYRKDRRCKGVSDYWECS*T GSESYSGGELYFRFHS*WRRLF
22640	53008	A	22768	223	339	
22641	53009	B	22769	341	496	
22642	53010	A	22770	12	1099	VSGVPNCLFFSQALFRSLVRHL RGTMAMESTATAAAELVSA DKIEDVPAPSTS\ADKVESLDV DSEAKKLLGLGQK\HLVMGDIP AAVNAFQEAASLLGKKYGETA NECGEAFFFYG\KSLLELARME NGVLGNA\LEGVHVEEEGEKT EDESLVENNDNI/D*N*RLGRG* *RK**D*RNAK*FSP*KQVSSRK *GGGDWEPRACLGYAGFSKDH F*KARNKRSTALCCPGTS*TRRS *C*I\KLCASC\GGVPVLP*PTGP VPGSPRSPCRDPLPAGLGLWV QLSV**GSGTVQQIY*SH*EQNG CTKRAGEGG*RIVC*IQERN*GT KGTATRN*REDRRCKGVSA*W ECS*TGSESY

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22643	53011	A	22771	11	2485	VSGVPNCLFFSQALFRSLVRHL RGTMAMESTATAAAVADVVS ADKIEDVPAPSTSADKVESLDV DSEAKKLLGLGQKHLVMGGIP AAV\NAFQGAA\SLL\GKKYGET ANE\CGEAFFFYG\KSLLELARM ENGVLGNALEGVHVEEEG\EK TEDESLVENNDNVIDEEAREELR EQVYDAMGEKEEAKKTEDKSL AKPETDKEQDSEMEKGREDM DISKSAEEPQEKVDLTLDWLTE TSEEAKGGAAPEGPNEAEVTSG KPGQ\ EVPDAEEEKSVSGTDVQ EECREKGGQEKGGEVIVSIEEK PKEVSEEQPVVTLEKQGTAVEV EAESLDPTVKPVDVGGDEPEEK VVTSENEAGKAVLQLVGQEV PPAEEESPEVQTEAAEASAVEAG SEVSEKPGQEAPVLPKDGA GPSVVGDQTPIEPQTSIERLTET KDGSGLEEKVRAKLVPSQEETK LSVEESEAAGDGVDTKVAQGA TEKSPEDKVQIAANEETQEREE QMKEGEETEGSEEDDKENDKT EEMPNDSVLENKSLQENE EE EI GNLELA W MDMLAKIIFKRQET KEAQLYAAQAHKLGEVS ENYVQAVEEFQSCLNLQEQL EAHDRLAETHYQLGLAYGYN SQYDEAVAQFSKSIEVIENRMA VLNEQVKEAEGSSAEYKKEIEE LKELL\ EIREKIEAKESQR\SG
22644	53012	A	22772	52	161	FQNPTGLY/CDTEYN\RLQKQQ TEKTKQKKTQFHPICN
22645	53013	A	22773	3	115	FFQNPTGLY/CDTEYN\RLQKQQ TEKTKQKKTQFHPICN
22646	53014	A	22774	229	358	
22647	53015	A	22775	257	386	
22648	53016	A	22776	259	294	
22649	53017	A	22777	217	398	KA WW NLLRKSEPKSCGS*GGL STS R RLVECSSPLGLGYCG**L CHLQE PHY GSLHRMSS
22650	53018	A	22778	1	3386	

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22651	53019	A	22779	391	2100	SRRTAGVRLDILCKDPIMWVSA DGHSYQPQYPKAKRATEFHFF NFKALLARAAGVAARGIHIHRC GLTKRPDARRRRVAGAQGREGP AISLPGDRAAGARATRTRGPGP APKMPAIAVLAAAAAA\WCFL QVESRHLDALAGGAGPNHG\NF LVDNDQ\WLSTVSQYDRDKY\W NRFRDEVEDDYFRN\W\NPNKPF DQAL\DPSKDPCLKVKCSPHKV\W CVTQ\DYQTAL\CVSRKHLPR QKEWGTWAQKHGLDL*ILV K\CKPCSRGRSSAMGLAGSDGP LLTAFQVANLEFHACSTGQK/S FATLCDG\PCPCSSQSLEPPKHK GRKGVPCTDKELRNLASRLKD WFGALHEDANRVIKPTSSNTAQ GRFDTSILPICKDSLWGMFNKL DMNYDLLLDPSEINAIYLDKYE PCIKPLFNSCDSFKDGKPFLNNE WCLLPSQNPGGLP/CAQNEMNR IQ\KLSKGKSLLGAFIPRCNEEG YYKATQCHGSTGQCWCVDKY GNELAGSRKQGAVSCEEQETS GDFGSGGSVVLDDLEYERELG PKDKEGKLRVHTRAVTEDDED EDDDKEDEVGYIW
22652	53020	A	22780	2	441	HGVQGAGCGEVAAVSIELGAG GPVWRAAPRACSRQLLRRGFG LEGQWFGESCCRRGAS*EGSTR *PPPRRQPWPWEVMSWVPPET REPARISPAPAKQN*PPPAPKSP AAPA\PQAAVAATPSPPGEISEA WDSLESFSKPAFFSQ
22653	53021	A	22781	3	121	

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22654	53022	A	22782	2	1488	FVNNMADGEEPEKKRRRIEELL AEKMAVDGGCGDTETWKDR\W WNHVKK\FLERSGPFTHPDFEP\ STESLQFLLDTCK\VLVIGAGG\LG CELLKNLALS\GFRQI\HVID\MDT\DV SNS*IRQFLFRPKDIGR PKAEVAAEFLNDRV\PN PHFNKIQDFNNDTFYRQFH\IV CGTGTLS CARRW INGMLIS\LN YERMVS*DP SIVPLID\GG TEGF\K ENARVIL\PG MTACI ECL YPP QVN FPM CTIAS MPP RLPE HCI\EY VGMLQ WPKE QPF GEG\VP D GDD P\EH IQW IFQ KS LERA SQY NIR GV TYRL TQGV VKRI PAVA ST NA VIA AV CAT* /EV FKI ATSA YIPL* IIT WV FND V\DG LY TY TFE GR KGK\EN CPAC\SQL PQN ISVF LH QAKL Q\EV LG IIL TNS ASL QN EIL PAIT ATLG GEK IGT LY LQSV TS\I EERN RAN FF QT IER NW GLL DGP KTG RLL DV TTP\Q T VLF QTS ILL KGK SPT
22655	53023	A	22783	1	1719	
22656	53024	B	22784	199	460	
22657	53025	A	22785	226	1620	NGSGLALATGNRDPGLCPLSAP SCPWR*KSAGASTQQAYSSSQ /HPAYHRITPTLTNFALRLYKEL AADAPGNIFFSPVSIS\TTLCLC LG\AQANN SALILEGLGFNL TET PEADIHQGFRSLL HTL VLPSP KL ELKVG NSL FLDK KRLK PRQHYF D SI KELY RA FA FS A HFT DS VTT GR QINDYL* RRT YWP GV DLP FRS/L ARD TFMV LA\N FIL FS KAK VKA T LSS RVP DPK SRP VFL V DERT SF \Q VP MMH QKEM HRF LYD QD LA CTV LQIE\Y RGN NAL ALL VLP DPG K MK Q VE A AL QP QTL RK W G QL LL P S L L D L H L P R F S I S G T Y N L E D I L S P N W F S P T Y T L N K I T S L Q S V G G * L N K S I K V S H K S M V D M N E K GD Q R P G L L Q A S S P S P H L */ YT MS D P H A F N R P F L L L W E V T T Q S L L F L G K V V N P V V W V T M V G Q E L S Y L I L D Q T D R P E P A C I L G L C G
22658	53026	A	22786	64	288	
22659	53027	A	22787	1	1923	

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22660	53028	A	22788	309	2286	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGGNRYGL\IGANGSGKSTFMKILGGDLEPT LGNGSLDPNER\IGKLRQ\DQFA FEEFTVLDTVIMGHKEL\WKVK QERDRIYALPEMSEEDGYKVA DLEVKYGEMAGYSAEARAGEL LLG\VGIPVEQHYGPMSEVAPG WKLRLVLLAQLFADPDILLDE PTNNLDIDTIRWLEQVLFNNNS TMIIISHDRHFLNMVCTHMAD LDYGEELRVYPGNYDEYMTAAT QARERLLADNAKKKAQIAELQ SFIDKIKLEEVKASSRQNPFIRFE QDKKLFRNALEVEGLTKGFDN GPLFKNLNLLEVGEKLAVLGT NGVGKSTL\LKTLVGNLQPDSG TVKWSERARIGYYAQDHEYEF ENDLPVFEWMSQCKQ*GDDEQ AVRSIFGRLLFSQDVKKPAKVL SAPFCKDSILEAIDAGIKLIITITE GIPTLDMLTVKVKLDEAGVRMI GPNCPGVITPGECKIGIQPQGHIIH KPGTGELENITTGGIVKARDTQIA LNDKSKGDVRVDGQNSLLETF NMYVGTSGTGTLLTNNGTLN VEGGEVYLGVFEPAVGTLNIGA AHGEAAADAGFITNATKVEFG LGEGVFVFNFNHTNNSDAGYQVD MLITGDDKDGVHIDARHTVF
22661	53029	A	22789	1	553	
22662	53030	A	22790	1633	2207	ILFFDKGMPAQTPSLQKRWEK M*LVLW*GDREGIKAI/SEESW GARAPIFLR/MMEDQGLYSIR MGGARGLPGKSLAL*GAGRGE YSGERTWTLSLPSGNCAP\YQR GGWWYHACA\HSNLNGVWHH GGHYRSRYQDGVYWAERGG AYSLRKAAMPHLAPEAVTLCSE GPLGPRGHWSAGAPSCSGHTFF
22663	53031	A	22791	34	210	AAADPLRHLLRGAFIKAGRHA G/PSLPVCLQATAH*MDLARLA LVLVVRTSASTKSSTRE

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22664	53032	A	22792	397	1168	LLSRISKVSSKLPVRGGAGSLCTGDQRK\RRKFL\ETVELQISLKNYDPQEGQSAFSGHPSRL*V\PSPLSSLVCVLGGPSKHL*RRLRPVGYPPTMDIEGA*KKLNQELKNLVKKAGPRKYDCVFWPQESLDSSKIPPNPSGPGFK*RAGKVPFPCLTHNGKHGLAQSGIEVEVPTF/LSFQMKKGVYVWA VAVWSRE R*QTNELVYNIHLACQLSWVSLLKEKNWQ\NVPGPYIJKSTMGQSPSSHILRHIRINSITS
22665	53033	A	22793	1	377	SVSRVPTRSLRTSTWRLAQDQTQDTQLITVDEKLDITLTGVPEEHIKTRKVRIFVPARNNMQSGVNNTKKWKMEFDTRERWENPLMGWAST\WSYDIEERKVPKPKSKSYGANFSWNKRTRVSTK
22666	53034	A	22794	183	368	
22667	53035	A	22795	3	623	ILAFACSKMAAVSMSV\VLRQTLWRRRAVAVAAL\SVSRVPT/RSLRSTWR\LAH\DQTQDTQLITS**KIGISLTNFNWPFPPEEHKNL EKSGIFVPCSPITCQSGVNNTK\KWK\MEFDTRERWEN\PLMG\WASTGLIPLS\NMVLNLPVLEDAVS\FAEK\NGWELWTLEERK\VPKPKSQVFMGANFS\WNKRTRVSTKIGLALTISPA
22668	53036	A	22796	1	798	MNKVNPTQDQDKEDHPELIITSIGDKRQLTLEAASGVCHRGQTQTRVKEESKKFLISMFSRGGKPVHKVVERACVCTCLHHTSVPATHNTQRHHTPTTRKNGRKRRGKKEREKRKDREHNTGRRTKRKKTRNIGGQRTQQKQKQSEDKARRPGGGRKQGRGRGREDGTRQRRGGRTRNREEGAQRGRNGR/RGEGRTEETHMA*APDITATQQTEQQGHGTRQRDTTLRRHTAEDAQPSEHASADQAHKKTE*SVSTNNGQYLLT
22669	53037	B	22797	85	322	

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22670	53038	A	22798	165	4733	AATALLTHGQEEGQVEGQDED IPPICTVQNGLRYHDRDVWKPE PCRICVCDNGKVLCDVICDET KNCPGAEVPEGECCPVCVDGSR VTHRPKKPPGVEGPKGDTGPPR PKGT\PGPPGRDGIPGQPGP PGPPGPPGPPGLGGKLLLPKLSY GYDEKSTGGISVPGPMGPGPR GLPGPPGAPVSIQDVFICLLGLW SFGGKTGMRAGEMLRDLLGPQ GFQGPPGEPEPGASGPMGPRG PPGPPGKNGDDG
22671	53039	C	22799	88	392	
22672	53040	A	22800	37	293	
22673	53041	A	22801	55	1917	GGGGVRRRRGTRRSEPGDSRSA MAPIGLKAVVGEKIMHDVIKK VKKKGEWKVLVVDQLSMRML SSCCKMTDIMTEGITIVEDINKR REPLPSLEAVYLITPSEKSVHSLI SDFKDPTAKYRAAHVFTDSC PDALFNELVKSRAAKVIKTLTEI NIAFLPYESQVYSLSDSASFQSF YSPHKAQMKNPILERLAEQIAT LCAT\KEYPA\VRVYRGEYKDN ALLAQLIQDKLDAYKADDPTM GEGPDKARSQQLLDRGFDPSSP VLP*I*LFQGMSY*SCLP\ENDV\Y KYETSGIGGGHGVKGASGT EDDDLW\IALR\HKHIAEV\VSQE VTRSLKDFSSSKRMNTGEKTT MRDLSQMLKKMPQYQKELSK YSTHLHLAEDCMKHYQGTVDK LCRVEQDLAMGTDAEGEKIKD PMRAIVPILLDANVSTYDKIRIIL LYIFLKNGITEENLNKLIQHAQI PPEDSEIITNMAHLGVPIVTDST LRRRSKPERKERISEQTYQLSR WTPIIKDIMEDTIEDKLDNK\HY P\YISTRSSASFSTTAV\SARYGH WP*GTRPPGEYRSGP/RVFIIHP LGGVSLNEMRCALRR*PRANG KWGGA**GSTHILQPHRNLPGH

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22674	53042	A	22802	46	1931	GGGGVRMLCGTRRSEPGDSRS AMAPIGLIAVVGEKIMHDVMI. NDLNMGEWKALLVDQLSMRM LSYCCCLMTDIMTEGITIVEDINK RR*PLPSLEAVYLITPSEKSVHS LISDFKDPPTAKYRAAHVFFTD SCPDALFNELVKSRAAKVIKTL TEINIAFLPYESRVYSLDSADSF QSFYSPHKAQMKNPILERLAEQ IATLCATLKEYPAVRYRGEYKD NALLAQLIQDKLDAYKADDPT MGEGPDKARSQQLLIDRGFDPS SPVLHELTQAMSYDLLPIEND VYKYETSGIGEARVKEVLLDED DDLWIALRHKHIAEVSQEVTRS LKDFSSSKRMNTGEKTTMRDL SQMLKKMPQYQKELSKYSTHL APCLRTCMKHYQGTVDKL\CR V\EQDLAMG\TDAEG\EK\KDP MRAIVPILL DANVQTY*QIRIILL YIFLKNGITEENLNKLIQHAQIP PEDSEIITNMAHLGVPIVTDSTL RRRSKPERKERISEQTYQLSRW TPIKDIMEDTIEDKLDTHYPYI STRSSASFSTTAVSARYGHWHK NKAPGEYRSGPRLIIFILGGVSL NEMRCAYEV TQANGKWEVLIG STHILTPTKFLMDLRHPDFRESS RVSFEDQAPTME
22675	53043	A	22803	2	51	
22676	53044	A	22804	236	451	LHLPLFLGAIRSGQYGLWNLF VLGWTCSLCIYLGWRVS*NFG RGTALKVLSTIS/E*RNHHCHP *NNIFVY

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22677	53045	A	22805	3	1173	GAGAPAAGQAGLTSTSAVRAR PVSPARQSQDPAASLSLHLSLPP APGAGCARWRRRGPQAAMAA GAGAGSAPRWLRALSEPLSAA QLRRLEEHRYSAAGVSLLEPPL QLYWTWLLQWIPLWMAPNSIT LLGLAVNVVTTVLISYCLTAT EEAPYWTYLLCALGLFIYQPLD AIDGKQARRTNSCSPLGELFDH GCDSLSTVFMAVGASIAARLGT YPDWFFSRSFYLGCLVFYC\AH WQTYVS\GMLRFGKVDVTEIQI AL\WIVFVL\SAFG\GATM/WGD YTIPILEIKLKILPVLGFLGGVIFS CS\NYSHVILH\GGVGKNG\STIA GTSVLSPGTPH/MGLIIL\AIMIY *KVRQLMVF*KSIPL*\YPQCLG CVF\AKVSQKISGSSHDKQ
22678	53046	A	22806	2	1091	CPGRRRRRRPGRSRARATALPT PGPRKRGGPAGRKRERPERCSS SSGGSSSSGDEDGLELDGAPGR GKRAAQPVAAAGKVGGAAVV AEPEHTKKHVKLETLLITEGK LWSWGRNEKAQLGHGDTKRV EAPRLTEGLSHEVIVCVCARNH TLALTETGSVFAFGENKGQL GLGN*TDAVPSPVQIMYNSLPIT KMA/CGYGWLGYTEQKDEMVP PRLVKLDFPGHGASQIYAGYT CSFAVSEVGGLFFWGATNTSHE STMYPKAVQDLCSWRIWSLAC GKSSIIVAADESTISWGPSPTFG ELGYRDHKPKSSTAQEVKTL HGIFSEPVAMGYSHSLVIARDE SETEKEKIKKLPEYSPQTL

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22679	53047	A	22807	1	1409	MSLGLASERLWAGLGLPALPLADEGGECGETLFVWRSQKLEGSKCKGQLLIFGATNWDLIGRKEVPKQQAAAYRNRLGQNLWGPHRYGCLAGVRVRTVVGSCAAHSSLITTEGKLWSWGRNEKGQLGHGDTKRVEAPRLIEGLSHEVIVSAAACGRNHTLALTETGSVFAFGENKMGQLGI.GNQTDAVPSAQIMYNGQPITKMACGAESMIMGLQRKPLFLWGALNMGQLGTQLRMGKFHSPGAQRIEYDCELVPRRVAIFIEKTKDGQILPVPPNVVVRDVACGANHTLVLDSQKRVFSWGFGGYGRGLGHAEQKDEMVPRLVKLFDFPGRGASQI/SCWL/HTC SLCCQ*NGWSVFLGGHQHLP*IYHVPQKQCRTSAAGESGTLACGKSSIIVAADESTISWGPSPTFGELEYGDHKPKSSTAAQEVKTLDGIFSEQVAMGYSHSLVIARDESETEKEKIKKLPEYNPRTL
22680	53048	C	22808	277	518	
22681	53049	A	22809	2	192	
22682	53050	A	22810	1	2946	MAEAGLRGWLLWALLRLAQSEPYTTIHQPGYCAFYDEC GKNPELSGSLMTLSNVSCSNTPARKITGDHLILLQKICPRLYTGPNTQACCSAKQLVSLEASLSITKALLTRCPACSDNFVNLC HNTCSPNQSLFINVTRVAQLGAGQLPAVVAYEAFYQHSFAEQSYDSCSRVRVPAATLAVGTMCGVYGSALCNAQRWLN FQGDTGNGLAPLDITFHLLEPGQAVGSGIQPLNEGVARCNE SQGDDVATCS
22683	53051	A	22811	258	362	
22684	53052	A	22812	1	4038	MAEAGLRGWLLWALLRLAQSEPYTTIHQPGYCAFYDEC GKNPELSGSLMTLSNVSCSNTPARKITGDHLILLQKICPRLYTGPNTQACCSAKQLVSLEASLSITKALLTRCPACSDNFVNLC HNTCSPNQSLFINVTRVAQLGAGQLPAVVAYEAFYQHSFAEQSYDSCSRVRVPAATLAVGTMCGVYGSALCNAQRWLN FQGDTGNGLAPLDITFHLLEPGQAVGSGIQPLNEGVARCNE SQGDDVATCS

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22685	53053	A	22813	198	380	ASSESDSTPCR*MAYSWPPNSN SSHCIKELPLFMGKIPAAS*DGG PQGLAIFPPGVIVGI
22686	53054	A	22814	1	154	
22687	53055	A	22815	35	486	PARRGRDEC*VLAPFRA TRPPS RRTR*SKATYPTPSNDQTRTIRT SRERASMPRSAEPKRPTIPRLHP SPRGIVTVSS/RPRSHALPVSHIH SCHSRTAISDNQVPAFLQVYGE EVRKRAGEVTQAITGFPYRLF FKMLRCHRSLIQVTAST
22688	53056	A	22816	212	365	RCRSGPAPRSAPGARPASPSSPA AGTCR*RPAGHCPAGAAGLLSL CPRCST
22689	53057	A	22817	293	618	QQNPTNCLPPASR*SKT*RARST AGPTRPHLHHPAAPAPGSPACA GEGRLQR/HSPNPI/YFNWKKQR FAAKPHFRRPQSSLNPQQWLLA GLLQEESSSLGTDTAPLHSLG
22690	53058	A	22818	3	1129	FCLDDLSSAINEHLSARGRRRS IVKVSLHPAVIGLKSFLKKPD QLRKLF\IGGLSFETTDESLRSHF EQ\WGTLTDCVVMRDPTKRS RG\FGFVTYATVEEVDAAMNA RPHKVD\GRVV\EPKRAVSREDS QRPG\H\LT\TV\KKJFVGGIKEDT EEHHLRDYFEE\I\LN\SM\GK\LEV VEIH*LDR\GQWPRKRGFAFVT FDGHDSVDKIVI\Q\KYHTVNG\H NCEVRKALSKQEMASASS\SQR G\RVGSGNF\WC\GRT\NGFGGND NFG\RG\GNFSWSVVA\FGG\SRG GVWIWVA\VG\DG\YNG\FG\NDGS HFG\GGGSY\NDFGDFH\NQSSK FWTP*RG\GNLGGQKLWPPMGG GG\QYFAKPTKPKVAYGRFPAA ASSY\GKWPEDFN
22691	53059	A	22819	1	568	MGKMSPGHVRDFHGSCHHNRP GGPGGKSGFMQALGPG/GCV QPRDLVLCVSATPAMAERGQC GAQAVASEGGSPRPWQLPCGV EPADFRRYMETPGCPGRNL/PA GAGPL*RTSAGAVWKG\NVRSE SP/PQSLYWTASGA\VR\RGPPSS RNQN\GRSTD\SLH\CM\PGKDTQ\NP NP*KQPGGRLHPAKPQGRSCP
22692	53060	A	22820	232	389	

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22693	53061	A	22821	3	401	VGVCERGAPG\PP LAPGPARG PVAAAVPP/GPGASRARP*DAA AAAGGRGPPEQ*T*KAWGLHP GTGSL/RGHPAPM*PLLRAFPRS PLHPLPPPPLPRRAA\SNPGTS KCRTAAGTRQWGGRQSQLQRC QCLR
22694	53062	A	22822	1	410	MGKMSPGHVRDFHGRPSHHRP RGGGGKSGFVGKVQGPHAVCS LGTWCLVSQPLHP\G*KGPMYS SG\VA SEGGSPKPWQLPRGVEP MGAQKSRT EVWEPLP RFQKIY GNTWMRIPMCCARDPGGAKG GCSNPSQRR
22695	53063	A	22823	264	979	GPRHADPANSARNLSRP*DAP GRVQDPRPQAPQL\PPGLGAPSR VRRPPP RRVDPRTLPGGPRPPA AAA\GPTGGRGS\PRAGGTAAA TGPRAGPGARGAAGSAPFLTDP NM\GRPPP PATT PPGAATAPGP REAPGKFRVSPPGPSAGGPP TRASPTPTAAGGGGGDSEGEGP ILLVADAG\PDSARSPPGLPGCV LSAAPRSRRDPDAVGGLAASA AARRLNTTWKLPQLGASTL
22696	53064	A	22824	271	426	
22697	53065	A	22825	546	1296	KMVDCLANSEANTRRISIVENC FGAAAGQPLTIPGRV LIGEVLT KL\CRKKPKARQFFL RNDIVV* GNIVI QKKK YIKQHII PLENVTID SIKDEGDLRNGWV IKTPTKSF\A VYAATATEKSEWMNHINKCVT DLSKSGKTPSNEHAAVWVPD SEATVCMRCQKAKFTPVNRRH HCRKCGFVVCGPCSEKRFLLPS QSSKPVRICDFCYDLSAGDMA TCQPARDSDSYSQSLKSPNLDMS DDDDDDDDMQ
22698	53066	A	22826	1219	2370	
22699	53067	A	22827	164	601	DRTNIMVGYHQTNQKTDTGKT PTRRPV LVDH\NRLPEGSRGRL AVAVAGDHPAAVQVTMLVN DTGFDPVFGSIAESWGQHSGT PSYC*DWEAATMLRAFPLAKK GETKDLRQFPNIDNAYMELGT NRADAVLHDTPN ILYFMQF
22700	53068	A	22828	2	91	

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22701	53069	A	22829	1	1188	MGAEPSLLTSLGTLWSGERFQC MRAKIWERSRKGRRFSTDVISP TKDSFAGPFQPISDTLVQHQRIY GLKVCVLPDPCKIRILKPNPQC VGKWEVEVAENEIQVFGGERF DINKYSKSPPPPTPQPLYLTAGF ASCRNRHKSEELREGKGESPGK SKPFHLQANFTVALVTTLQGDK HSQEAFIRPVAKAKTTCTYLSN VCEMKDFKRINCPDPFHKMAP KAKKEA\APP\KAEAKAKGFK GPRRQVLK\GVHNHKKRKRKK ERSRTFTHLSRRPGRPLR\RRQP \KYPGSGRAAPRRNKLHYAIK FPLTVTESAMKKIEDNNTL\VFI VELLKATTKNQIKQGC*RSLYD \DVGQGSTPWISAWMGEKKGI CSPLAPDLPIAFGMFANKIWGFI
22702	53070	A	22830	1413	2197	RVEWRWYNVLPCLDVHSGPVD RRSHVMTAAEKPPFCPAWGQA VSQQSCALEPRTGEEGKGIGQ PASGLFPTGEEISVVPNRWLDA SLSPVILGVQG\GSQCLSCGVGQ EPTLTLEVRLGASSLGTQPQML SLLKPGSPQPWCCGTP*QDSVD GSFASSLRILAKALLCCPGFCPS LTLPSCRKPVTIME\YLGAKE S\KSFTFYRRDMG\LTSSFESAA YPGWFLCTEPE\ADQPVRLTQL PENGGWNAPITDFYFQQ\CD
22703	53071	A	22831	100	177	KRDHF*SRLQQVSRSRVWSSSA TDSR
22704	53072	A	22832	610	1080	
22705	53073	A	22833	1169	1308	

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22706	53074	A	22834	1	1889	ACRRRAGTWTTPRPRGSRA MAGNCARGALSAHTLLFDLP PALLGELCAVLDSCDGALGWR GLAERLSSSWLDVRHIEKYVDQ GKSGTRELLWSWAQKNKTID LLQVLQEMGHRRAIHLITNYGA VLPSEKSYQEGGFPNIFKETA NVTVDNVLIPEHNEKGVLLKSS ISFQNIIE\GTRNFHKDFLIGER E\IFGGYQEGKIQTLTYAVKLFK QEKKMQCKKHWRFLSELEV LLFHHPNILEAA\YFTET\EKFC LIYPYMRNGTLDRLQCVGDT APLPWHIRIGILIGISKTIHYLN VQPCSVICGSISSANILL\DDQFH PKLTDFMSAHFRSP\LEHQSCCI NMPSS\SRKHLWY\MPPEYIRQ GKLSIKTDVYSGFIVIMEVLTGC RVVLDPPKHIQLRDLLRELM RGLDSCLSFLDKKVPPCPRNFS AKLFCLAGRCAATRAKLRPSM DE\W*RALESTQASLYF\AGDPP TSLKALRGPSPLFLEKVT\IPV \EDDE\KPNNNLLPS**KALRMK RWPQK\TPF\ECSQP\EVWFLSLE QKAREARENEEACNMPSSS\CE ESWFPKY\IPVPS\QDLRPL*GK*K ILSSQA\SGHSC\RTKPVESSCSS KFSWDEYEQYKKE

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22707	53075	A	22835	1	1560	RWERGGKRFRAADPM SALRRS GYG PSDG PGS YGR YYGPGGGDV PVH PPPPL YPLRPEP PQQPISWR VRGGGPAETT WLGE GGGGDG YYPSGGA WPEPGRAGGSHQEQ PPYPSYNSNYWNSTARSRAPYP STY PV RPELQGQSLNSYTNGA YGP TYPPGPGANTASYSGAYY APG YTQTSYSTEVPSTYRSSGN SPTP VSRGIY PQQDCQTEAPPLR GQVPGYPPSQNPGMTLPHYPY GDGNRSVPQSGPTVRPQEDAW ASPGAYGMGGRYWPWSSAPSA PPGNLYMTESTSPWPSSGSPQSP PSPPVQQPDKSSYPSQSDQSM NRHNFP/CASVHQYESLGDQ*T MDDSRILLDSPSPSIVPEPSACM GNAHPVTHP/NNQDQSSLPEE CVPSDESTPPSIKKIIHVLEKVQ YLEQEV EEFVGKKT DKA YWLL EEMLT KELLE LDSVETGGQDSV RQARKEAVCKIQAILEKLEKKR IMKGFI TKWKPV TNLTKEH LIW LITLFLKCLLMTRSNTFQLFL
22708	53076	A	22836	8	207	TPVPRALRSPAGLEGSHLSSIST MMPAVMSVVGKV TENG GSPQGI KSPSKPPGP NRIG*RNQSVVHT
22709	53077	A	22837	459	5520	RQVRPAGLEGSDLSSINTMMSA VMSVGKV TENG GSPQGI KSPSK PPGPNRIGRRNQETKEEKSSYN CPLCEKIC TTQHQLTMHIRQHN TDTGGADHSCSICGKSLSSASSL DRHMLVHS GERPYKCTVCGQS FTTNGNMHRHMKIHEKDPTSA TATAPRGDFASAKSSKRKLSH DAESEREDPAPAKKMVEDGQS GDLEKKADEVFHCPVCFKEFV CKYGLETHMETHSDNPLRCDIC CVTFRTHRGLLRHNAL
22710	53078	A	22838	164	434	
22711	53079	A	22839	23	242	
22712	53080	A	22840	187	325	
22713	53081	A	22841	1	130	NCPMCWP GQSPRVPST*GRRNP PPKRRSVAES*RHWPQSPSP
22714	53082	A	22842	614	774	QEPMRMCTMLANSSPSSSQATP PGL*SWNQPSL PARTLSRHEWT SCLGSSANL
22715	53083	A	22843	396	560	LFPHDG IKHKGK ENP/PKG PPPP THPQT PPR PADAPL VATKSTLD QAWALLAVATS
22716	53084	B	22844	124	205	

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22717	53085	A	22845	1	2355	MVGSRISGVIPLPFTRRAGIFS DPRANMQPLWAPVPPATFVPTS LPPVPTARPPTSASCHCQQVPC AGLEVALPGNRTICWLWPS WQLDEDAQSPALESSSIRQFPT APRSGYPGTLCPNFLFGPRPRTC EYHSKPVLCAPSSRASPSSATT STRTLWPGPAGSHPGVHNTR LSPDLCPGKIVLRAKESGAGM PEQHKDPRVQENPDDQRTVPE VTGDAKSFWPLRDNGGSPFV PRPGPLQTDLHAQSSEIRYNHTS QTWTSSSTKRNAISSSYSSTGG LPGLKQRRGPASSRCQLTLSYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTAASRPHINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTRSAPAAAAAPP PSTLNPTSGSLLNEWMEAPHIS WPQPQLQHVPRGQ/NVRYNQR SQTSRTRS/CPQTKCQLQLPQLY GRPPGSKAEEG\PASSHCQLALS SSNTVSEDGPQA VSSGHRCENK AGTAPGQTLAPRGGSPRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS
22718	53086	A	22846	1	1200	MPEQDKDPRVQENPDDQRRVP EVTGDARSAFRPLRDNGGLS/PP FVPGPGPLQTDLHTQR\LGYRV TVEDLDREKEAAFQRINSALQV EDKAISDCRLSRPSHTLSSLATG TSGLPAVSKAPSMDAQQERHK SQDCLGLLAPLAPAAEVPAT MSGKKHRPPGPLFSSSDPLPAT SHSQDSAQVTSLIPAPFFPAASM DAGMRRTSPGTSAAPAAAAAPP PSTLNPTLGSLEWIEALHISGPQ PQLQQVPRGQNQRSQTSRTSSC PKRK/CHLQLLQLYGRPPGTKA EEG\PASSHCQLTLSSNTVSED GPQA VSSGHTCEKTADTAPG QTLAPRGGFPRSQASRPCRHKF PLLPRRRGEPLMLPPPLEGYR VTAEDLDREKEVAFQRIKSALQ VEDKAI

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22719	53087	A	22847	2	1762	YHSPKPVLCA PSSRASPSSATTLS TRTLWPGPAGSHPFGVHNTRL SPDLCPGKIVLRA LKESGAGMP EQHKDPRVQENPDDQRTVPEV TGDARSAFWPLRDNGGPSPFVP RPGPLQTDLHAQSSEIRYNHTS QT SWTSSSTKRNAI SSSYSSSTGG LPGLKQRRGPASSRCQLTLSYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRPHINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQ QDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTRSA PAAAAAAPP PSTLNPTSGSLLNEWMEAPHIS WPQPQLQHVPRGQ/NVRYNQR SQT SRTS/CPQTKCQLQLPQLY GRPPGSKAEEG\PASSHCQLALS SSNTVSEDPQAVSSGHRCENK AGTAPGQT LAPRGGS PRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLA PLASA AEVPSTAPVSGKKHRPPGPLFSS SDPLPATSYHSRDTAQ

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22720	53088	A	22848	292	2053	GSVAWSPFSPSPSSLCLWDLPV APTLWGPGAGSHPFGVHNTRL SPDLCPGKIVLRALKEGAGMP EQDKDLRVQENPDDQRRVPEV TGDARSA/FLAPAGQWSPLSLC AQSRSASADIPPCPEVRNQI*PDIP DHLDELMHQPKCHLQLLQLCG RLAGAKVEEGASGAKEQGRDA *AGQGTPESQQNPDDQRTVPEV TGDARSTVRPLRDSGGLSPFVP RPGPLQTDLHAQSSEIRYNQTS QTSWTSSSTKRNAISSYSS\TGG LLGLKQRRGPASSRCQLTLSYS KTVSEDRPQAVSSGHTRCEKA ADTAPGQTLAPRGGSPRSQGSR PRRRKIALLPHR*GELQVEDKAI LDCRPSWPSHTLSSLATGASGE PPVSKAPTMADAQQDRPKSQDC LGLVAPLASAAEIPSTAPVSGK KHRPPGPLFSSSDPLPATSSHSR DSAQVTSLIPAAFTAASMDVG MRRTRPGTSAPAAAAAAPPST LNPTSGSLLN\EWMEALHISGPQ PQLQQVPRGQ/NVRYNQRSQTS RTRS/CPQTKCQLELPQLYGRPP GTKGCRHEKNVLCSKLFEFGFG !FVGFFFAYMGILQLLII

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22721	53089	A	22849	146	1789	RQPSTSGSSRSCP CARRSWWAR TARSGWWWELLGARRSPQTLH CPQATLITLPCPRPSSTTSGSAM T*RGPWRS PGCTTSFCPTSR/PV ERNIDQTDLHAQRSEIRYNQTS QISWTSSCTRNAI SSSY SSTGG LPGLKRRRGPASSH CQLTLSSS KTVNSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVS KSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDE GNYTSGDNH LRDPH YVEDKGHKYLV FEA NTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIELNNDYTLKKV MKPLITR GSSRPSIREDENGRS QKPVHPEG DMTMNIKKIVNQATVLTFTTAL LAGGATQAFAKENNQKAYKET YGVSHITRHDMI LQIPKQQQNEK YQVPQFDQSTIKNIESAKGLDV WDSWPLQNA DGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDNSIDS WKNAGRVFKDS DKFDANDPILKDQTQEWRGEA
22722	53090	A	22850	500	1034	

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22723	53091	A	22851	1	2396	MDKYLLHGPPRPPPAIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSSIRQ FPTAPRSGISPLCAPHSCLGQGR GPASHPTSTQTLDISGVKTPRR FSVILQDLCISILGDSCLQFHLHR VPQQVSAVLLRVSGASPSPATT LSTRTLWGPAGSHPGVHNT RLSPDLCPGKIVLRAKESRAG MPEQDKDPRVQENPDDQRTVP EVTGDARSAFWPLRDNGGPSPF VPRPGPLQTDLHAQSSEIRYNH TSQTSWTSSNTKRNAISSSSYST GGLPGLKQRRGPASSRCQLTLS YSKTVSEDRPQA VSSGHTRCEK GADTSPGQTIAPTGGSPRSQDS RPRRKIPLLPERRGEPLMLPPP LELGYRVTAEDLHLEKETAQFR INSALHVEDKAIPDCRPSQPSHT LSSLATGASGGPPVSKAHTMD AQQHRPKSQDCLGLLA PLASA AEVPSTAPVSGKKHRPPGPLFSS SDPLPATSYHSRDSAQVTSLIPA PFTAASSDAGMRRTRPGTSAPA AAAAAPPPSTLNPTSGSLLN\EW MEAPHISWPQPQLQHVSRGQ/N VRYNQRSQTSRTRS/CPPRKCQL QLPQLYGRPPATKAEEG\PASSH CQLAHSSNTVSEDPQAVSSG HTRCEKKAGAS/RWASRF*STH YGCTAGQTQVPRLPGPTGPPSI
22724	53092	A	22852	1	3392	MDKYLLHDPPRPPPAIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSSIRQ FPTAPRSGYPGTLCPSPFLFGPRP RTCEYHSKPVLCAPSSRASPSSA TTLSTRTLWGPAGSHPGVHN TRLSPDLCPGKIVLRAKESGA GMPEQDKDPRVQENPDDQRTV PEVTGDARSAFWPLRDNGGPSP FVPRPGPLQTDLHAQSSEIRYN HTSQTTSWTSSST
22725	53093	A	22853	40	409	WKMRHETRYNVLSRGVGCH RLFFLNGVFEHLGRAFVQRRKV DTEHQLLRAAVPANQEHRGLT QSQHVDGHSLLLTLPNSFLCQI QEPEPSVLTLLW
22726	53094	A	22857	3	220	

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22727	53095	A	22858	1	356	MAGPVKDREAFQQLNFVYQVS LRQGPHGDGARRPRVTAPLPQ AAHCVLAQDPENQALARFYL\H TERTIAKRLVLRDPSVKEELL CRGCSSLLVPGLTCTPAPRDR RGQRWTGTDLP
22728	53096	A	22859	2	270	
22729	53097	A	22860	2	364	IFSALPAPRRKVGLNLAPVTEPR DQPWAMIIDVFSRYSGSRGQPR QT\LT\KGELKVLMEKELPG\FL QSGKDKDAVDKL\LKDPGRPM GDAQGGTFSEVHPCSVAIT\SA CHK\YFE\KAGLK
22730	53098	A	22861	282	469	DCGSELQAPPPPSLPGPLCPSIM PA/PPYASPPMPMPMMGPPFRGM MPVGLAPGPMLLQYNTCS
22731	53099	A	22862	7	522	SVWWNSNGLQSNMPKFYCDY CDTY\LT\HDSPSVRKTHCSRK HKENVKDYYQKWMEEQAQSLI DKTTAAFQQGKIPPTPFSAPPPA GAMIPPPPSLPGPPRPGMMPAP HMGGPPMPMPMMGPPPGMMP VGPAPGMRPPMGGHMPMPG PPMMRPPARPMMVPTRPGMTR PDR
22732	53100	A	22863	3	455	WFLIHDRTHTGEKPYKCNECV KAFHRSTCLHAHKRTHTGEKP YECNQ*GKAFNSSHFSQIHERT HTGEKPYECKECGKAKGPSSV RRHERTHSTKKPYECKHCGKA LSYLTSHNHLGMHTGEISHTC KICGKAFYSPSV\IQTHE*THT
22733	53101	A	22864	1	1665	
22734	53102	A	22865	1	2650	

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22735	53103	A	22866	107	2384	MFGVHGTFLGIESRPPLSLSPS LLYTCEMFQDPVACEDVAVNF TQEEWALLDISQRKLYREVML ETFRNLTSIGKKWSDQNIYEY QNPRRSFRSRLIEKKVNEIKDDSH CGETFTQVPPDRLNFQEKKASP EVKSCDSFVCAEVGIGNSSFM SIRGDTGHKAYEYQEYGPKY KCQQPKNKKAFRYRPSIRTQER DHTGEKPYACKECGKTFISHSG IRRHMVMHSGDGPYKCKFCGK AVHCLRLYLIHERHTGEKPYE CKQCGKSFTYSATHRIHERHT GEKPYECQQCGKAFHSSSFQA HKRTHTGGKPYECKQCGKSFS WCHSFQIHERHTGEKPCESK CNKAFRSYRSYLRHKRSHTGEK PYQCKECKRAFTYPSSLRRHER THSAKKPYE/CSFQYHERHTG EKPYECKQCGKAFRCAPHLRR HGRTH/S/AEKPYECKECGKAFR SASHLQIHERTQTHIRIHSERP YKCKTCGKGFYSPKSFQRHEKT HTAEKPYECKQCGKAFSSSSSF PYHERHTGEKPYECKQCGKA FRSASILQMHAGTHPEEKPYEC KQCGKAFRSAPHLRIHGRHTG EKPYECKECGKAFRSAKNLRIH ERTQTHVRMHSVERPYKCKIC GKGFYSAKSQIHEKSYTGGKP YECGLQLPRTAAESVDSEKLQG PGKQETHVQLLSYCLRRVLDC
22736	53104	A	22867	I	391	MKEHIERNPVTIKNVVKPSINT VPLEDMKAHTGEKPYERQKCE LNQRLRDYAFQYHESNSGVVS ADSETKSGHSGCLIKEMKNATK THNGITGGIIFNANHWRETNTIY TRIHI/GEKSCDYKKCGKAFNQ YSSLRRHESHTGEKPYERQKC ELNQRLRDYAFQYHESNSGVV SADSETKSGHSGCLIKEMKNAT KTHNGITGGIIFNANHWRETNTI YTRIHINKQEKYQATHVSYAAN
22737	53105	C	22868	179	289	
22738	53106	A	22869	3	206	

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22739	53107	A	22870	1	855	MPRAEPRATLGEQEKAAGLPLG AWRLYLLRHFRKQTELRRSGSR DVTGALLVAAAVASEAVGSLR VAEGGPNTLLLQVLR\SWPWC NKEELKTMEERKVKRRSPKSFA HCTQVNVQKKMSIPVK\ST\G FSNPASQVNFTSRPKVKKEVM K\EKTKPQGLEEGQRHSQLPIQ HSFLT\DVSRCSRKMERGLLSL\ LNDFHWSWKTFKHFGNECS\NEQ MEHVSSELQEKLARLNLELYG ELEELPEDKRKTASDSNLDLL SDLEELNSSIQKLHLADAQDVP
22740	53108	A	22871	67	598	SIRRHCGQRCLVIRIRIWPLKLP RLAVREGLRCGTLRDVMPPSM SGVVVGPPGP\PPGPCGDTTSGP APGTFGQASAPVSPPRRGHGEY LCSSPTVFPFGLWQPPRAGFTA PERSWSCRGPWQLRAAWAGR LSSSPVSALLTFKVIIISTGLLFG PLGGWKILSSLPEIFANLAT
22741	53109	A	22872	1	372	
22742	53110	A	22873	1	3961	FALAPEAGFYSLGQQPSTRISGS GCVHPVRVWPFSIEPAIGTLNV GESMQLEVEFEPQSVDHSGRL IVCYDTGEKVFVSLYGAIDMN IRLDKNSLTIEKTYISLANQRTIT IHNRSNIIAHFLWKVFATQQEE DREKYSKVTAVFSIAASSNSRF ALYESSYNSQRSPSEWACDDLI KEEKDETDEFFEECITDPLLREH LSVLSRTFANQRRLVQGDSKLF FNNVFTVEPLGWSERKEMAEIR DVQKKDTKV
22743	53111	A	22874	1248	1716	WYAEQSAHEATAQLSTPMAIR RAVVMPPEQRNRTKKEY/SLRI PFGLPGDRMCFTHRND/PTG NEVTPPSLAADLGQQFGGDAT DRQPWMIHQMLIHQGSEQLCF VEHG\NMLRLGEILHLAATRHE AHFLAFRQFFNHQRSCFALNLA RQDRITDF
22744	53112	A	22875	478	663	
22745	53113	A	22876	508	884	RQRHPDQRPGRSLFHGHGMCP TTPLQQVQDSQHNGDNNSESA P*QRRADSIHRSSLHIKRPPSE DVSRCFCLCIDLAFRQGFTFNKK GIRVRIPFGLPGDRMCFTHRND DRPAMKLLPFAGNKV

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22746	53114	A	22877	1	506	AFCRFSILVGSASFISETDMCLLC PFPPIGKAISVRLQYFKHETKQSI CLGNQKSPLVCPFFGEQGLDSS SSLDLPPSPNPAPTLCPCVQPPR GPVSVSVPVSVMGSRLAPLLSA *LFVSVILGRMVILKNPGVLGQ RQAGPSPGAPGLPSPSVRPLG HKCSERSPSAT
22747	53115	A	22878	621	877	RRRRRKQRRKQPWSSPARGA *PGP RPSLRAAGTRRRRKRA SWTRCSNTCPGRCRTCSRSNQA SCPSLLHLLLLFGSFFSFY
22748	53116	A	22879	1	1339	MPSYKGCGETQRHATNGTAAP PRRSSCRGDAIKLPHAEKKEGR PPASTSYPLRLGTRSARSSSHC WCTSWEDEPPEATAGEEKRIHPK SPAVCCGEGTVLTASTVTWRA EPARGEIWARLCPRDRPGSRAA AVIWERPCCDRLIADRTGPPNSS EPHCRAATIPLPTWPLPEGQTLT LKALAKMAAPALLLALLPV GAWPGLP RRPCVHCCRPAWP/L WTLCPGEKGEAGVRGRAGRSG KEGAA\GCPGPAGPQSARRGSV GPPGAACRRAYAAFSGRREG LHSSDHFQAVPFDTELVNLDGA FDLAAGRFLCTVPGVYFLSLNV HTWNYKETYLHIMLNR/QAA/V VLYAQPSERSVMQAQSLMLL RRATPVWSVPEELPAVLPQDE LGSLQLHAHHPLADGLVRHEL QPGLAGSSRTGHLVFRTDHGLR QHASHGCPVGPLHVPG
22749	53117	A	22880	532	783	VGSTRGIVEGLIFILGEGGECYY PRSLFTVANFTVGKRV\KTLNC PSTDKWINKMCHIHTVEYYSDI KRNEIPMRATCRQTLKA
22750	53118	A	22881	275	720	TPIHNCFKENKIPRNPTYKEHEG PLQGELQTTSQGNKRGYKQME EHSMMLMGGRINIMKMAILPKVI YRFTIPIKLPMTFFTELEKTTSKF IWNQKRARIAKSILSRKNKAG/ AHHAT*LQTILQGYSNQNSMVL VPKQRYRPMEQSPQK

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22751	53119	A	22882	1	609	MGRNQSRKAENSKNQSASSTPKDHSASPATEQSWMGNDFDELTELGFRKSVMNTNSQLKEDVRTHHKEAKNLEKRLDKWLTRINSIEETLNNDLMEALKTMARELRDTC TSFSSRFDQVEEGEIQTTIREYYEHLYANKLENLEEMDKFLDTYTLPRLNQEEVESLNPITGSEIEAIINSLPTKKIPGPDRFTA*RRP*MT*WS*KPWHENYVTHAQASVADSIKWKKGKYK\HHQRIL*TPLRK*TRKSRRNG*IPGHIHSPKT KPGRS*IPE*TNNRF*N*GNN**PTNQKNSRARQIHSQILPEVQRG
22752	53120	A	22883	191	564	PNARKLRTLKKDHSPD**RRKL RIK*MQ*KMIKGISQRSHRNT NYHQRTL*TPLHK*TGKSRRNG*IPGHIHPPKSKPGRSQIPEYTNN KI*N*GSN**PINQKKSRTGRIHS QILPEVQRGA
22753	53121	A	22884	337	589	TRRSRRNG*IPGHIHPPKTKPGR SRIPE*TNNRL*N*GSS**PTNQK KPRTRETDSRILPEVQRGAGTIP SETIPNNRKRGTPP
22754	53122	A	22885	162	539	TRKSRRNG*IPGHIHPSKTKPGR S*IPEETNNKF*N*GSN**PTNQK KPRTRQVHSRILPEPISHGMGKS WKQSL*KPAQDKAVPSLIAPIQ HIIGSSGQGNQARERNKGYSNR KRGSQIVSVCR
22755	53123	A	22886	329	459	NDTFRKPHRLSPKSP*AADKQLQQSLRIQNQCAKLRSIPIHH
22756	53124	A	22887	58	440	GLSRQFSPHSVNKAAGEVPTGR GPPQLSKANVARLPLSIPPLWA GHLWKKGGSPSQGIIDKTLISLG QST*GKGQLWVQLQRT*AFLPAGSEESSGSPSTA\PNSAKGQTPSSGSLTRASSSSLYLW
22757	53125	A	22888	219	332	NEGKNLKGSRERNTNYHQRT Q*TPLHK*TRKSRRNG
22758	53126	A	22889	1295	1435	QNQRQKPHDYLNRCRK/W/HFD KIQQPSMLKTLNLKGNDGTYL RIIRDI

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22759	53127	A	22890	2	648	YRFSGPTIRSIQNHTTHNQGRK WHKKGIKKPRAQRYESLKGPE V*PSGQGVTCRLLRADWLSPLLG SGT\VGPKFLRNTRFAKKHNK KGLKKMQANN\AKAMSARAE AIKALVKPKEVVKPKIPKGCS/RR KLRDFDFAIYAHPKLWGRRCFVA RFCQGASGCSGPKGAKAKVKA KVKS/PKAKAKAKAKDQTKA QAAAPALV\PAQAPKRTQAPTK ASE
22760	53128	A	22891	3	370	QMYCVFNRNEDACRY/GS/AIG VLAFLASAFFLVDAYFPQISN ATDRKYLVIGDLLFSG\VLASLA YQRYKAGVDDFIQNYVDPPTD PNTAYASYPGASVDNYQQPPFT QNAETTEGYQPPPVY
22761	53129	A	22892	1	297	
22762	53130	A	22893	3	713	GGGSGGDGDMESGAYGAAKA GGSFNLRRFLTQPQVVARAVV L\VFALIVFSCIYGEGYSNAHES KQMYCVFNRNEDACRYGSA\IG VLAFLA\SA\FFLVDAYFPQISN ATDRKYL\VG DLLF\SA LWTF WFR\VGFCFLTNQWAVTK\PKT VLVGADSVRAAITFSFFSIFSWG VLASLG\YQRYKAGVDDFIQNY VDPTDPNTAYASYPGASVDN YQQPPF\TQNAETTEGYQPPPV
22763	53131	A	22894	3	219	
22764	53132	A	22895	1445	1777	PVHLGSTCHQCRQKTIDTKTNC RNPRLLGA/CRGQFCGCPCLQNR YGEEVRDALLDPNWHCP\HCR GICNCSFCRQRDGRCATGVLVY LAKYHGFGNVHAYLKSLKQEF EMQA
22765	53133	A	22896	3	337	
22766	53134	A	22897	425	1209	TMSSTQFNKGPSYQLFAEIKNQ LLFKCDPQKQAALCSWIEGLTR LSFSPDFQKSLKEGIVLCTLMN KLGSPVKI/NRLMQNWHQLENL SNFIKAMVGYDMNPMDLFEAN DLFESRNMTQNRIL/P/PLDHSTI SLQMGANKRSSQ/VGMTAPGTP QHIYNTKLGAHKCDNSSMSLH MGDTQSANHSVQGFGLGQQIY YPKYCPQ/GPAASGAPLDAGNC PGPGEAPEDPPCSQEEATTEAPE HAGSLHHRPVVVWGIFLYFRL SFFFL

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22767	53135	A	22898	156	559	QHIRETPGAQVHSCGKWNPQA LWRTAWQLLT/DTKHTL GKPPS /MPHLVIYPLEISC\HTKTCTRML IASFFIITKTWKPRPCPSVDWK NKPWC IHTGLLSSTVPPGE PG PIPELSGLLMGLQTTSSRCVRQ VW
22768	53136	A	22899	161	359	
22769	53137	A	22900	151	383	
22770	53138	A	22901	238	546	PQEHI MEHLEGVINKPRGRRCR PQELQLHYLQKCMDYDGNNLL DGFR TL PQP STHV\HKEEGSEQ APLMSEDEL\NIIIDGVLRDDDK NNDGY\IDYAEFAKSLQ
22771	53139	A	22902	1	819	MAAEDKLLPQLPELFETSKQL LDDVEVVT EPAGSRIVQKKVFK GLDLLEKAAEMLSQL/DLVAEL ELPKTKNSAE\NHTANFSMAYP SLIAMASQRQAKRERHKQKEL EHRLSAIKSAVETGQADDERVR EYLLHLQSLEEIESIDQEIKILR ERDSSREASTSNSSRQERPPVKP FILTRNMAQVKVFGAGYPSLAT MTVSDWYKQHWKYGALPDQG IAKATPEEFRKAAQQQEGQEEK EEEDEQTLYRVREWDDWKI HPPRDYGSQQSMG
22772	53140	B	22903	238	410	
22773	53141	A	22904	1	638	VAEELPKTKNSAE\NHTANFS MAYPSLIAMASQRQAKRERHK QKELEHRLSAIKSAVETGQADD ERVREYYLLHLQSLEEIESIDQE IKILRERDSSREASTSNSSRQERP PVKPFILTRNMAQVKVFGAGYP SLATMTVSDWYKQHWKYGAL PDQGIAKATPEEFRKAAQQQEG QEEKEEEDDEQTLYRVREWDD WKGIHPPRDYGSQQSMG

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22774	53142	A	22905	3	1083	RGNSRLRYSHEDELQLPRLPELF\ETGRQLLDEVEVAT\DPAGFR\IVQE\K\VFKG\LDLLE\RAAEML\SQSTLFGRECRFWKDLSPTHLITFWGP\AFQGA\LPLKQVNPSKR\RIILQR\AREHFI\NYLT\QCH\CYHVGQSFEL\PKT\MNNSAENHTANSSMAYPMLGAM\ASQRQA\K\IQR\YKQKKELEHRLSAMKSA\VESGQADDERVREYYLLHLQR\W\WVDISLEEIESIDQEIKILRERDS\REASTSNSSRQERPPAKPFILT\RNMAQAKVFGAGYPSLP/TLW\TVSDWYEQHRKYGSITGFRGIA\KSAPEGISGKAAQQQEEQEEKE\EEDEPNNFHRAREW\DDWKD\TPSLGAYGNRQNMG
22775	53143	A	22906	30	457	
22776	53144	A	22907	401	1509	MWKMNC\CSLLQSKQMCNQLPP\GSTRDG\SWKFRQDPR\LGKNA/CD\DCDSCIASEFG\VRGYPTIKLLKG\DLAYNYRG\PTKDDIIEFAHRV\SGALIRPLPSQQMFEHM\QKRHR\VFFVYVG\GESPLKYVTLKEMP\AVLVFKD\ETYFVYDEYEDGDL\SSWINRERFQNYLAMDGFLLYE\LGDTDLNASSLRERKLILP\DI\LYVGKLVALAVIDEKNTSVEHT\SELTVPTVVVLNTSNQQYFLD\RRQKNVEDMVQF\INNILDGT\VE\AQGGDSILQRLKRIV\FAKSTIV\SI\FKSSPLMG\CFGLPLGVISIM\CYGIYTADTDGGYIEERYEVSK\SENENQE\KIEESKEQQEPSSGGS\VVPTVQEPKD\VLEKKKD
22777	53145	A	22908	53	543	LPISSLRTQTLFSSPLFPQHFEHY\LA\VS\VL\PFQLGRGRT\APAKKG\GEK/RKGHSAINEVVIQ\EYTINI\HKRIHG\VRFKKRAP\RALREIPK\FAIKE\VE\T\LSV\RI\DSR\FN\KALCA\KG\IR\NV\PYR\IR\Q\LSR\KRN\ED\DS\PN\KRY\T\LV\TV\H\HEN
22778	53146	A	22909	106	491	IGKGT\N\ELMYGEK/RKGHSAINEVVIQ\EYTINI\HKRIHG\VRFKKRAP\RALREIPK\FAIKE\VE\T\LSV\RI\DSR\FN\KALCA\KG\IR\NV\PYR\IR\Q\LSR\KRN\ED\DS\PN\KRY\T\LV\TV\H\HEN
22779	53147	A	22910	1	321	

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22780	53148	A	22911	313	402	R*GGEKKKGRSAINEVVTREYT INIHKRIHGVGFKKRAPRALKEI RKFAMKEMGTPDVRIDTRLNK AVWAKGIRNVPYRIRVRLSRKR NEDEDSPNKL\YTLVTYVPVTTF KNLQTVNVDEN
22781	53149	A	22912	1	3801	
22782	53150	A	22913	2	535	GGGMADTVLFELHTEMVAEL WAHDPPDPGPVSAGLRGEEAG ATKGQKMSLSVLEMGFRCVGQ ALGERLPRETLAFREELDVLKF LCKDLWVAVFQKQMDSLRTN HQGTYVL\QDNSFPLLLPMGSG LQV/YLEEAPKFLAFTCGLLRSA LYTLGIESVVTASVAALPVCKF QVVIPKS
22783	53151	A	22914	1	201	GDLPWEINPLSSCSLLHEKDPPT TSGPQT/DQPKKHHTNFKSGPT GNRTVQLTWQPLPEPLELWPK AL
22784	53152	B	22915	226	522	
22785	53153	C	22916	1	705	
22786	53154	C	22917	1	462	
22787	53155	C	22918	1	505	
22788	53156	B	22919	1	1059	
22789	53157	C	22920	1	411	
22790	53158	A	22921	1	212	LTSFLHCCCLSHHYHGAQIHPRH FLHLICRCHCHQYCHAYLDPC PQDSHHLHWCVQPLPEPLELRP \RLSD
22791	53159	B	22922	1	864	
22792	53160	B	22923	1	635	
22793	53161	B	22924	1	874	
22794	53162	A	22925	1	566	MPSVRTGDPILHAHTLNPAVW LA WAVEGEGSLTLNIWICPWQI EPLRHLAYTPGSDATSLTVPTR VISPLCVDWLFTDPLMKTHAP ERTFLSFPAAAKRQAHLCVLAS NCDKPMYVKLVKAHCAEHQIN LIKGDNNKKLGEWEGPCTIDRE GKPCVVGCSCAVVKDY/GKE SQAKD VIEQYFKCKK
22795	53163	A	22926	59	602	PTAMVEEGIAAGGVMDVNTAV QEVLKTALIH DGLARGIREAAK ALDKYYVYQSQYCGFLQPEQNC HPREEGMEMVLAQKF*MASV LPET*EK\RQAHLCVLASNCDEP MYVKLVEALCAEHQINLIKVD DNKKLGEWVGL\CKIDREGKPR KVVGCSCVVVKDYGKESQAK DVIEEYFKCKK

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22796	53164	C	22927	135	293	
22797	53165	B	22928	20	325	
22798	53166	A	22929	677	1031	TPTMCLRSHPPLALVSVILSFP QPSFSSSLINSSWSSPRSSLSSSSS RSPSSGRVNLHPPQTSSH*SHL SSRSCCSAPLLTYHSSLLLVC VPPFPFPGENPLFVLSGSAP
22799	53167	A	22930	1	1011	MCLRVIFTIGAVSVILSFLSLFFII LDQLQLVIPQSSLSSSSNLEDPY SESYYAAARRPDSASTEPPPAG KSSAEYRAHFLAVSTEAERIRA DLVLRARPLGPAHPRTLWPTPP AGPFCRMVAHNQVA\ADNAVS TAAEPRRRPEP/SPSSSSSSPAAT ARPRPCPAV\PAPAPGDTHFRTF RSHADYRRITRASALLDA\LG YWGPLSVHG\AHEPLRAEPVGT FPVRDS\QRNCFFALSVKMAS GPTSIRVHFQAGRFHLDG\SRES FDCLFELLEHYRGGSRADLLGA TLRQRRVRLQELCRQRIRRPP VG\REN\LARIPLNPVLRDY\LSS FPFQI
22800	53168	B	22931	180	1466	
22801	53169	A	22932	1	207	
22802	53170	A	22933	408	3758	CLQQGPGGNQHCSHREEAPAV AACQEPPGHSEPESVPLPLGAPP\SEEDGRQQVGSSRLRHIMAEMI ATEREYIRCLGYVIDNYFPEME RMDLPQGLRGKHHVIFGNLEK LHDFHQHQHFLRELERCQHCP VGRSFLRHLIGQKQFPESP PGLTSSHAPCPWMMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLLFQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKVI PLGPPPTACPALS
22803	53171	A	22934	3	355	EAAELDAMCTATRQWSRAGQ GVTGRPCQGRLPRCGLRSTITP KPIPGGGHRKPLLGA\GKHTLS YVERWHWEGHSGI*TRDRQNF ERRLTVPSSRQPFA PTDETRCG DDRISFCNYV

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22804	53172	A	22935	1928	5312	CLQQGPAGGNQHCSHREEAPAV AACQEPPGHSEPEVPLPLGAPP\SEEDGRQQVGSSRLRHIMAEMI ATEREYIRCLGYVIDNYFPEME RMDLPQGLRGKHHVIFGNLEK LHDFHQHQFLRELERCQHCPLA VGRSFLRLIGQKQFPESPSGER PGLTSSHAPCPWMPHYPALPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLLFQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKDK QRELGDKMDLASY
22805	53173	A	22936	3	306	
22806	53174	A	22937	3	460	LQRQRQHPAAAPAVPVRCTFC FTDIVIMPKRKSPNTEGKDGS KVTQEPTRRSARLSAKPAPPK PEPKPRKTSAKKEPGAKISRGA KGKKEEKQEAGKEGTAPSENG ETKAEEIHISRSTNVSTSRGTP PSTLSVKGQIETVRVKGTEN
22807	53175	A	22938	3	285	SSCPAREQLQRQRQHPAAAPAV PVRCFTFCFTDIVIMPKRKSPEN TEGKDGSVKTQEPTRRSARLS /AVFV*FKLSLQKPAPPKPEPKP RKTSA
22808	53176	A	22939	1	413	
22809	53177	A	22940	2	454	AEVQVEEAGLRRALRVSSCSGR GSIQRRFYAVPVRCFTFCFTDIV IMPKRKSPNTEGIDGS\KVTQ EPTRRSARLSAKPAPPNPEPQPR KTSAKKEPG\AKISRGAKGKKE EKQEAGK\EGTAPAENDETKAE EAQKTESVDNEGRMNCP
22810	53178	B	22941	55	186	
22811	53179	A	22942	2	397	
22812	53180	B	22943	339	470	
22813	53181	A	22944	1	139	
22814	53182	A	22945	1	416	MPLLYHLSRCAYVQQCNFANP VVSALCTCLVKPVVEKCTPYA VLEALALRNVRQLEDLVIEAV YADVLRGSMMDQRNQRLEV DYS IGRDIQRQDLSAIARTLQEWG/C HQHLLSLRSAASQRQQCGYHK LHDKQRLLRG
22815	53183	A	22946	315	570	

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22816	53184	A	22947	933	1841	RPAEPDPGSGHPEPKSPTLSAV MSAEVKTGRNQEQQFLLLAKS A\KGAVLATLHGVLE\APGVY VFGELLDMPNVRELAESDFAST FRLLTIVFAYGTYADYLAEARN LPPLEA\QKNKLSDTFSVV\TL AAKVKCIPYAVLLEALAL\RN RQLEDLVIEAVYADVLRGSLDQ RNKRL\EV\DVDSIGRDIQRQDLS AIARTLQEWCVGCEVVLSGIEE QVSRANQHKEQQQ\GLKHQIES EVANLKKTIVTTAAA\AAATS QDPEQHLTELREPAPG\TNQRQ P\SKKASKGKGLRGSAKIW\SKS
22817	53185	A	22948	1	1319	
22818	53186	A	22949	365	1331	RAGGGAPWRFTGTFA TVAPET AADLSLHRHLLSRTTSAWGTAC ITVPIEPPTWPTWAVPIQWGG SATCIQEDKLRQGILYGYSQV NQAMDSGLRP\VVDSVNAIRVP QDYVTQSVPLREMNGSLGVLA QQLQNAKLQADA AHSALKQSD DLKPVFDQAFKVVTTPADAL QPLIPAAQFTTQQLVMVGDYIA QQGTQECGKTSRASAYLVQHS RIHIGKKPYECKEKGKAFSSGS YLVQHQRIHTGEKPYECNKCG KAFTVYQQLIGHQSVHTGEKPF ECKEKGKAFLNNSFLTEHQRVH TGEKPKCKCGKTFRYSSAP
22819	53187	A	22950	2	206	GGGQGATSFGRPESGFIRHQPPP PCRRSSTPTRSKLYTL\SAPE*RS VPTSAPGPQDRPPGSVSKSW
22820	53188	A	22951	571	1102	MGSVSLGNPQGPQFTRLPLAN VIHPTFFWETGPRGADSLGAKG RKWQPTFTSRCNLKVYLGRAG SQAATGGPSPSLPNLHVKKLRP RKAEEWPGRRNTGKVSGR/LA ALRAPYGESFARAAGPRDAPS/ QQPRPQPEHAPTLISLGSNFGG MVEESWCRMNPDSGRPKEVAP WPPPSTK
22821	53189	A	22952	1	591	MGPHWKDFKEIDVKKYIDALSI HTYTHHTHHTHADITDGDHGG GALLELEINSHLKVQFRELNITA AKETEDGGGGKAIIFVFPFPLK SFQKIQVWLRRILPKPTRKSCT QNMHWPPRSRTLKAMRDSIPE DLVF\PSEIMCMRIHVVKLDGSRL IKAHLDKAQQYHVERNAETFS GVYMKLTGKDINVEFPEFQL

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22822	53190	A	22953	2	508	APPFELPRAAGIRHEGKFSQEKA MFSSSAKIVKPNGEKPDEFES GSQLLELEMNSDLKAQLREL NITAACEIEVGGGRKAIIFVPVP QLKSFQKIQVRLVRELEKKFSG KHVFIAHRRILPKPTRKSRTK NKQK\PRRSRTLTAVHDAIPEDL VFPSEIVGKRN
22823	53191	A	22954	145	395	
22824	53192	A	22955	536	717	
22825	53193	A	22956	1	729	
22826	53194	A	22957	1	1158	
22827	53195	A	22958	1	2869	MAHLRSCCSSLYQPGHLLPPHN PIQDHPLTAPSLTHLTRRAYFTD EKTKGGSAYAVSLLRECVKL RPSDPTVPLMAAKVCIGSLRW MAAKHLAGVLLHSLSEECYWS PLSHPLPEFMGKEESSFATQAL RKPHLYEGDNLYCPKDNLIEAL LLLLISESMLANKLLLLEMERV QSPGVESGVDRQLSPYSDTNVN AQNAQIVPVAAKSAQNEVPGY PEETEKSRVQSNLLTQFQDLRL LLAAPECLPPRMSPPS
22828	53196	B	22959	28	139	
22829	53197	A	22960	60	812	LASPFPVPLHRC SAGSQPPGPVP EGLIRIYSMRFCPYSHRTRLVLK AKDIRHEVVNINLRNKPEWYY TKHPFG\HIPVLKTSKCQLIYES VIACEYLDDAYPGRKLFPYDP YERVRQKMLLELFGKVPHLPK EPPGSVEDVGENAPNLKAALR\Q QEFNSNLEEILEYQNTTFFG\GTCI SMIDYLPL/WPWFER\ECMGY WNCVSHT\PALRLWISAMKWD PTVC\ALLMDKEHF\QGFLNPYF QNNPNAFDGLC
22830	53198	A	22961	2	251	ILLDFKPWDDETDMAQLEACV CSIQLEELV*GASKLVPMDGYGI RKLQIQCVVVEDDKVGTDLLEEI TKFEEHVQSVDIAAFNKI

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22831	53199	A	22962	353	1071	APLWPRAERKFYKQMNGPVAS ASRQSSAPG/NDHSELVLQIASL EVENQSLRGVVQELQQAVSNL EAWLN\IRREKSSPGH/RSTVP QTQHVSPMRQVERPSPRPPYYD PGQEAEDNEDDDI\LDNKEED KEARRLREERLRLYAKKAKNP SLVAKSSILLDIKPWDNKTDMT QLEACVRISIQLDGLVSGASKLA SVGYGIRKMQIQCVCVVEDDKVG TDLLEEEITKFEHVQSVDIAAL
22832	53200	A	22963	3	482	PWANEAPAKK/PATPAEG/DAR DDDDIDLF\GSDNEE\EDKQAGHS CGEER\LR\HYAGEEGPRKPAL/ VWPKSLPSLLDVK\PWDDDDGP WPSLEACVRISIQLDGLVWGGF PSLVPVG\YGIRK\LQ\IQCVCV\ED DKVGTDFPWRREIT\KFEEARA RSVDIASFSTRS
22833	53201	A	22964	1	2835	
22834	53202	B	22965	571	1337	
22835	53203	A	22966	1	489	
22836	53204	A	22967	1	618	
22837	53205	A	22968	3	5227	SWSRVRPRTRPEGLRQLKMRT GWATPPRPA\GLMLLFWFFDL AEP\GRAVN\DPLTIFHGNTGKC IKPGY\GWIVADHCDETEDKLW KWW\QHRLFHLHSQKCLGLDIT KSVNELRMFSCDSSAMLWWKC EHHS\LYGAARYRLALKDGHGT AISNASDVWKKGGSEESLCDQP YHEIYTRDGNSYGRPCEFPFLID GTW\HDCILDEDHNGPWCATT LN\YEYDRK\WGICLK\ENG\CED NWEKNEQFGRCYQFNTQT
22838	53206	A	22969	3	453	GQSPILVIYHETKRPSG\ISERFSG STSGNTATL\TITGTQAMDEADY Y\CQAGRDFGGGT\KLT\VLGQPK AAPSVTLFPPSSEELQANKATL VCLISDFY\PGAVTV\AWKAHSN PVKAGVETTPSKQSNNKYAA SSYLSLTPEQ*KSHRSYSC
22839	53207	A	22970	2	354	
22840	53208	A	22971	1	315	

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22841	53209	A	22972	1	712	MAWTLFLTLLTQGTGSAQS ALTQPASVSGSPGQSITISCGTS SDIGAYYFVSWYQQYPGKAPK LLIFDVSGRPSGISSRFSGSKSGN TASLTISGLQAEDEADYYCASY ARSSSTVVFGGGTSVTVLGQPKA APSVT\ FPPSSEELQANKATLV CLISDFYPGAVKVAWKADGSP VNAGVETTPSKQSNNKYAAS S\YIYLSLTPEQWKSHRSYSCQV THEGSTVEKTVAPTECS
22842	53210	A	22973	1	1779	
22843	53211	A	22975	1	2001	
22844	53212	A	22976	292	1497	TGQLNGFHEAFIEEGTFLFTSES VGEGH\ DKI\ CDQIS\ DAVLD HLQQDPAKVA\ CETVAKTGMI LLVAGEITSRAAV\ DLPRKVVR SCLNTLEYDDSSKGF*LQRLVN VLVALEQQSPDIAQGVHLDNE EDIGAGDQGLMFGYATDETEE CMPLTIVLAHKLNKLAELRRN GTLPWLRPDSKTQVTVQYMQD RGAVLPIRVHTIVISVQHDEEVC LDEMRDALKEKVIKAVVPAKY LDEDIYHLQPSG/RTFVIGGPQ GDAGLT\ GRKII\ VDTYGGWGA HGG\ GAFSGKDYT\ KVDRSAAY AARWVAKSLVKGGLCRRVLV QVSYAIGVSHPLSISIFHYGTSQ KSERELL*IVKKNFDLRPGVIVR DLDLKKPIYQRTAAYGHFGRDS FPWEVPKKLIY

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22845	53213	A	22977	67	1579	FFVRSLSHDTNMNGQLNGFH EALIEEGTFLFTSKADGEGHPD KICDQISEAVLDAHLHQDPDAK VACETVAKTGMILLAGEITSRA AVDYZKVVREAVKHIGYDDSS KGFD\YKTCNVLVALEQQSPDI AQGVHLDRNEEDIGAGDQGLM FGYATDETEECMPLTIVLAHKL NAKLAELRRNGTLPWLRPDSK TQTVQYMQDRGAVLPIRVHTI VISVQHDEEVCLDEMRDALKE KVIKAVVPAKYLDEDTIYHLQP SG\RFVIGGPQGDAGLTGRIIIVD PYDGWGAHEEGAFSGKDYTKV \SRSAAYGARWVARSLVKGGI CRRLVQVPGPPKKPDEDLYLE CEPDPVLALTQTLFQVLMPSG PLPRTSVVPREQQMLPLKDSL LTQPWYSGNCDRYAVESALLH LQKDGA\YTVRPSSGPHGSQPFT LA\LLRGRVFNIPIRRLDGGRH YALGREGRNREELFSSVAAMV QHFMWHPLPLVDRHSGSRELT
22846	53214	A	22978	3	325	
22847	53215	A	22979	15	1014	
22848	53216	A	22980	7	592	LLCSGRHSLQGVGMIGLSFLPVL ATESDWADCKSPQPWGHMLL WTAVLSLAPVAGTPAAPPKAV LKLEPQWINVLQEDSVLTCRG THSPESDSIQWFHNGNLIPTHTQ PSYRFKANNNDSGEYTCQTGQ TSLSDPVHLT\TVLSGQWRKAPG WTWEGQDG*NLLSGRGLQERG VACLLGSIAVSCLSTYQWLFLP
22849	53217	A	22981	32	1150	EKAVTAVLWAPARLQGVGMIGL SFLPVlatesDWADCKSPQPW GHM\LLW\TAVLFLAPVAGTPA APPKAVLKL\EPQW\INGGSRED SVTL\TC\RGTHSP\ESDSIQWFH NG\NL\IPHTHTQPSLQVSRANNN DSGE\YTCQTGQTSLSDPVH\LT VLSEWLVLQTPHLEFQEGETIV LRCHS\WRDKP\LVKVTF\HNG KSKKFSRSDPNFSIPQANHSHSG DY\CTG\NIG\YTL\I\IPRLLTIT VQAPSSSPMGIIVAVVTGTAVA AIVAAVVALIYCRKKRISANPT NPDEADKVG\AE\NTITYFTSQW HPGWLWEEPDDQNRILVSIVLA LGIWRRN\SEREDLVFPGLKFPL GEDTGRCCQFPKEKVFLPGVIL

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22850	53218	A	22982	1	471	MKSSFQGHNKEKREKKGPSLFS AAYGGSCLLLSIMAALRPLVK PKIVKKRTKEFIWHQSDQHVKI KCNWRKPRG\QILMPNTGHGSN /KTKHMLPSGFRKFLVPSVKE LEVLMCNKSPCAEIAHSVSSK\N KTIVERAAQ/LAVRVTNPNARL RSEENE
22851	53219	A	22983	103	564	GIFRGIMAALRPLVKPKIVKKR TKKFIRHQSDRYVLIKRNWRKP RGIDNRVRRRFKGQ\ILMPNIGY G\SNKKT\KHM\LPK\WLSGKFLG SHQRSREL/EKLLA*CCNKFFTC CPRFVSHCFSFQGTGKGLRGER SLPNWAFRVTNPNARLSEENE
22852	53220	A	22984	3	177	
22853	53221	A	22985	74	735	RFAGAGAIPPEARARPPDVQAAE EEKEMDLPDSASR\VF/CGDASS NMGEHRMVNVNAIIL\AQKNML D\RF\EKT\NEMLLNFNNLSSARL ASRLSERFLHHTRTL\VE\MKDL \DSIFRRIRTLKGK\LARQHPEAF SHIPEASFLEED\EDPI\TQAPT TTIATSE\QSTG\SC\DTSPDTV\S PSLEPLASEDLSHVQALASPA\N NGPQPDQIDEEMTGR\IALPARC
22854	53222	A	22986	3	275	MRTVAEKVDAVRIVHHHSVIL RRSDKRKDRVEISPEQLSAAST EAERLAELTGRPMRVVGWYHS HPHITVWPSHVGKYHG\VAMFI VFRN
22855	53223	A	22987	1	886	AKMAVQVVQAVQAVHLESDA FLVCLNHALSTEKEEV\MLCIG ELNDDTRSDSKFAYTGTEMRT VAEKVDAVRIVHHHSVILRRSD KRKDRVEISPEQLSAASTEAER LAE\TGRPMRVVGWYHSHPHI TVWPSHVDV\RTQAMYQMM\DQ GFVGLIFSCFIEDKNTK\GRVLY TCFQSIQAQKSSEYERIEIPIHIV PHVTIGKVCLES\VELPKI\CP/ QEEQDAYRRIHSLTHLD\SVTKI HNGSVFTKNLCSQMSAVSGPLL QWLEDRLEQNQQHLQEL\HQE KEELMQELSSLE

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22856	53224	A	22988	10	988	LKAMSWAKMAVQVVQAVQA VHLESDAFLVCLNHALSTEKEE VMGLCIGELNDDTSRSDSKFAY TGTEMRTVAEKVDAVRJVHIHS VII\RRSDKRKDQVEISPGQLSA ASTEAELAELTGHPMRVVGW YHSHPHITVWPSHVDVRTQAM YQMMMDQGFVGLIFSCFIEDKNT RAGRVLYTFCQSIQAQKSSESL HGPQDFWSSSQHISIEGQKEEER YERIEIPIHIVPHVTIGKACLESA VELPKILCQEEQDAYWRIHSLT HLDSTVKIHNGSVFTKNLCQMS SAVSGPLLQWLEDRLEQNQQH LQELQQEKEELMQELSSLE
22857	53225	A	22989	1	1362	
22858	53226	A	22990	284	542	KLFQKKNKKSSCISDNFFFLAI MVNLLQIVRDHW\HVVLVPM GFVIGCYLDRKSDERLTAFRNK SMLFKSFPHRELQPSEEVTWK
22859	53227	A	22991	272	1241	FPGGAACDICWVKEENGSLMS MKMGWKAKSCLPVTVHPRCL TPYSARLSSTFPL*NSITGP*QS PACKRPF*LTTC*GGSRRNSNR KAA*GPCSPPPSPPPSPATLPR GPAGLQPPGPVPLPPLRPRKHY APGGLP\PPASLLEDDDDTFCTS QAMQPTAPTKLSPPALLPEKDS FSSALDEIEELCPTSTSTEAAATA ATDSVKGTSEAGTQKLDGPQE SRADDSKLMDSLPGNFEITTST GFLTDLTLDDILFADIDTSMYDF DPCTSSSGTAKMAPVSADDLL KTLAPYSSQPVTPSQPKMDLT ELDHIMEVLVGS
22860	53228	A	22992	1	3234	MELKCVCLKNRSPSAEEQPSLL PEPSAQESHGGHPRSALEYGRER LTGQPPSSPHPNPAPWASCPAVI DPVPIYSSVAEAYDSGTEGIPTV PGLR\HVESGLRATAQRLPPER RV/QQRTTAPPRQPPRPLRAS LSAAPPEPREPVVAAGPEPGSL QRPARTALPNRPEPQAASPGTL VEKYAAPVATQDLLDENPCTS RLGVVDLQAVLTLRKLENLRS GAQTPLEGGQSGRVGPHALRW NRGEEEGERLLC
22861	53229	A	22993	307	1906	
22862	53230	A	22994	1	1752	
22863	53231	A	22995	588	704	

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22864	53232	A	22996	3219	3407	DQVVWTKRLQDAILVLV*EFRL HSPALRLCVMKQVGMSQGELE WGQFLKLSSRNRKRSGERI
22865	53233	A	22997	1	588	
22866	53234	A	22998	1	917	
22867	53235	A	22999	1	1692	
22868	53236	A	23000	1	2266	MKRIRDYYERSHANNLDNLEE MDELLETHNLPGLNHEETENLN KPITTSLSPLAGVSSTKNTKNE LSIVLPFTGSILPVGFATRPRGL ASSNPILLHMVAFLFANGTEEL PVPLMTPTRQKKVIPLIMVG LGVASTIALGTGITGISTSVTTF RSLSNDFSASITDISQTLSQLQA LVDSAAVVLQGQLRGQLDLT AEKGGLCIFLNEECCFYLNQSG LVYDNIKKLKDRQKLANQAR QNLDSMLHGTGMKSDDQKKS ENGVTLAPEDTLPFLCYCSGH CPDDAINNTCITNGHCFAIIEED DQGETTLASGCMKYEGSDFQC KDSPKAHVRRTIECCRTNLCNQ YLQPTLPPVIGPFFDGSRWLV LLISMAVCIIAMISSSCFCYKH YCKSISSRRRYNRDLEQDEAFIP VGESLKDLDQSQSSGSGSGLPL LVQRTIAKQIQMVRQVGKGRY GEVWMGKWRGEKVAVKVFFT TEEASWFRETEIYQTVLMRHEN ILGFIADIKGTGWSWTQLYLID YHENGSLYDFLKCATLDTRALL KLAWSAACGLCHLHTEIYGTQG KPAIAHRLDKSKNIIKKNGSCC IADLGLAVKFN\SDTNEVDV\PL NTRVGT\RYMAPEVLDESLNK NHFQPYIMADIYSFGLIWEMA RRCITGGIVEEYQLPYNNMVP DPSYEDMREVVCVKRLRPIVSN
22869	53237	A	23001	68	636	GTTSNPKALLGALIAPAFASLPE GRGKRIQALNMFRPKNSWRLG LKYPPSSKEKTQVPKTLISGLPE RKSTTRVGEKLQSAHKMPLSPG LLLLLFSGATATA/APLPLEGGP TG\RDSEHMQEAAAGIRKSSLTF LAWWFET\QASAGPLIGKEA REVARRQEGAPP\QQSARRDRM PCRNFFWKTFSCK
22870	53238	A	23002	1	144	GIRLPSSADWQKTEAQKRREQL \LLDELVALVNKRDALVRDLDA QEKQ

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22871	53239	A	23003	2	667	RWNSSDPDADRTTLNHADHSS KIVQHRLLSRQEELKERARVLL EQARRDAALKAGNKHNTNTAT PFCNRQLSDQQDEERRQLRER ARQLIAEARSGVKMSELPP\YG EMAAEKLKERSKASGEQNSKL VDLKLKKLLEVQPQVANSPSSA AQKAVTESSEQDMKSGTEDLR TERLQKTTERFRNPVVFSKDST VRKTQLQSFQSQYIENRPEMKRQ RSIQED
22872	53240	A	23004	1	1437	
22873	53241	A	23005	1	2009	MAKPYLYKKYGNQQGVAAIPD VPAAWAEAPSPIPSPVLRKPN ASQSLLVWCKEVTKNYRGVKI TNFTTSWRNGLSCAILHHFRP DLIDYKSLNPQDIKENNKAYD GFASIGISRLLEPSDMVLLAIPD KLTVMTYLYQIRAHFSGQELN VVQIEENSSKSTYKVGNYETDT NSSVDQEKFYAEISDLKREPEL QQPISGAVDFLSQDDSVFVNDS GVGESESEHQTQDDHSPSTAS PYCRRTKSDTEPQKSQQSSGRT SGSDDPGICSNQDSTQAQVLLG KKRLLKAETLELSLDLYVSDKK KDMSPPFICEETDEQKLQTLIG SNLEKEKLENSRSLECRSDPESP IKKTSLSPTSCLGYSYSRDLDDA KKKHASLRQTESDPDADRTTL NHADHSSKIVQQDEERRQLR ERARQLIAEARSGVKMSELPY GEMAAEKLKERSKASGDENDN IEIDTNEEPEGFVVGGGDELTN LENDLDTPEQNSKLVDLKLKKL LEVQPQVANSPSSAAQKAVTES SEQDMKSGTEDLRTERLQKTTE RFRNPVVFSKDSTVRKTQLQSF SQYIENRPEMKRQRQRSIQEDTKK GNEEKAAITETQRKPSDEKGF KDTSQYVVVGELAALENEQKQI DTRAALVEKRLRYLMDTGQNL

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22874	53242	A	23006	145	3217	LDEYEARLT LANLDDFEEDNED DDENRVNQEEKAAKITELINKL NFLDEAKDLATVNSNPFD PDAAEELNPFGDPDSEEPITETASPR\ KTEDSFYNNSYNPFKE\ VQTPQ YLNPFDEPEAFVTIKDSPPQSTK RKNIRPVDM SKYLYADSSKTEE EELDESNPFYEPKSTPPNNLVN PVQELETERRVKRKAPAPPVLS PKTGVLNENTVSAGKDLSTSPK PSPIPSPVLGRKPNASQSLVWC KEVTKNYR
22875	53243	A	23007	1	165	RPAAPRHERRPAA DHGHHRPEP GRGTGQKACSELP SDEACS/GIA IG* SLLCSACSVRSRKRW
22876	53244	B	23008	26	625	
22877	53245	A	23009	325	526	
22878	53246	A	23010	1946	2224	LLQWRHGLLNPINSPYNSPILPV QKPDKPYRLVQHLCLIYQIVLPI HPMVPNPYPTLLSSIPFTTHYSVL DLKHAFFTIPLYPSSQPLFAFTW TDPDTHQAQQITLAVLPQCFIDS PHYFSQAQI SSSVTYLG ILMK THIGLGA VEQGVVVLGEARAA QEPMEWVGSGMVGCRSRALP RGKAAKARREIERSAVTIVPVL DFNPFAFHII PDTDTPDHDCISLIH LTFTPFP HISFFPVPHLEHTWFID GSSTR
22879	53247	A	23011	1	1479	MEENFIRVFTTTMLLLIALIK QGELCESFDGKSLDG RDERVVI CFDAAGLHRAC SIRGEQQNL GTHYFTWQRLFAEVIKLGGLM KPKARNASSLWKEKTNGFFS LETPEERQTSDLH KYQLA FRLF FIKYKNPAQFMAHLATT LRHFT ALDPESSHN FQNL FSSSHLMHIL SAPRLLRLYSRFV E SPTVTIVPG PDFNPASNIIPDTTPD PHDCISLI HLAFTPFPYI SFFPVPHDHTWF IDGSSTRPNCHTPAKAGY AIVSS TSIIEATALPPSTTSRQAE LIALT QALTAKGLRINIYTD SHILHH HAVLWA/E/RGFLTMQGSSIINA SLIKTLLQAALLPKEAEV IHCKG HQKASDPITQGNAYADKVPSL AHAPTLTAPVLQCP LREVAGT EDDNGKAVL EIPS NIRKSAHVP VQTWKGDPTNLLGGWFSNL GGFKTLVGT VIFIIGFLFLPCVI PRIKAIKTLVETTVSRQIIQTILL

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22880	53248	A	23012	854	1777	
22881	53249	A	23013	27	496	
22882	53250	A	23014	117	210	
22883	53251	A	23015	124	414	
22884	53252	A	23016	3	627	
22885	53253	A	23017	1	567	
22886	53254	A	23018	44	551	GGGRRSAPLQLGFMRSRQAKDD FLRHYTVDSPRTHPKGYTEYKV TAQFISKKDPEDVKEVVVWKR YSD\FRK\LHGD\LAYTHRNLF\R RLEEFPAFPVRAQ\VFGRF\EASV DSRER\RKGAE DLLRFTVHIPAL NNSPQLKEFFRGGEVTRP\LEVS RDLHILPPPLIPTPPPG
22887	53255	A	23019	25	488	
22888	53256	C	23020	9	119	
22889	53257	A	23021	52	241	
22890	53258	B	23022	4	402	
22891	53259	A	23023	249	984	GSTMVKMNICNKPSNKTPEK SVWTAPAQPSPGSPSPELQGQRSR RNGWSWPPLQIVAWLLYLF FAVIGFGILVPLLPHHWVPAGY AVSLGKRRAGPWNPFLSVSAET ILPQCMGAIFAGHLVVHLTAVS IDPADANVRDKSYAGPLPIFNR SQAHAVIEDLHCNLCNVDVSA RSKHCSACNKCVCGFDHHCKW LNNCVGERNYRLFLHSVASALL GVLLLVLGGHICLRGVLCQPH ASAHQPTL
22892	53260	A	23024	2	224	
22893	53261	A	23025	111	1368	QQPSGSGALARGSGLPPRGRL PARSPVQKRKGGWPKGKKRNP PRDLAV\RVPTTGYMIFLNEQRS QLRATHPDLPFTEIMKMLAVQ WAQLSQDKGRKYAGKALGV TPPPSALTPVALIEEPKQLDIQSL PFQPILDRLKIKDKRQLVPSYLG GMHTVTEGLAGRQVLLQQVQ GGAWEASAFLTCPWAMAAAAP GPTLTMLQPSISAVGFSQMMAG PHVQGRASKLSIYVNPRRQLST TTAMGDELNDLYCGTSRQLFSS LCNKKEPAAKAAPAAPLSSPGP PALGHAGHGRQLLERSLTLFH LYELLKYPRASPGLWPPRVWM PHSLTCGTFWVPMIMMRFCAH VASGLLRPPFNQVFAHLSPAQG RHPGENIIVLTSRAAVRIRCSS CSRSLTGNLKKILPRTQSTWSL WRKRRDK

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22894	53262	A	23026	2	405	
22895	53263	A	23027	1	391	
22896	53264	A	23028	3	463	
22897	53265	A	23029	74	466	FAFNMPPEPAKSAPAPKKGSKK AVTKAQKKDGKKRKRKRSRKESY SVYVYKVLQVHPDTGISSKA MGIMNSFVNDFERIAGEASRL AHYNKRSTITSREIQTAVRLLLPG G\ELAKHAVSEGTK\AVTKYHQ
22898	53266	A	23030	168	597	KEETDFLFWFCHYCFIMPELAK SAPAPKKGSKKAVTKAQKKDG KKRKRSRKESYSVYVYKVLQ VH\PDGTGISSKAMGIMNSFVTTF FE\RIAGEASRLAHYNKRSTITS REIQTAVRLLLPGELAKHA\VSE GTNAVTKYTSSK
22899	53267	A	23031	18	321	FTATWLNQEVGIVGKYRTRYG VSLQKMKVKKIEISQYAKYICSFL WQNSKMKRRAVGIWCCG/SCM KTVKVSSSRNHIWWTYNTTSAV TVKSTIRRLKQLKDQ
22900	53268	A	23032	12	445	FTCRSHVSEVEERCVEAPGLG SRSITGFLHSKQAKRTKKVGIV \GKYGNPLWGPSLR\KMVKK\IE ISQHAQVHFALFCGKTKMKRR AVGIWHCGSCMKT\IAGGAWT \YNTT\SAVTVKSAIRRKEFERP SRTLLYSLRTSLGL
22901	53269	A	23033	3	175	
22902	53270	C	23034	378	434	
22903	53271	A	23035	1	578	MVRCVRLVEAGSVVRYLSTSIC RPVVDAGSRALCLQEWADESQQ VKEKQYSSRNVQRAALNIYRI PPSSRKPALCPTPRDRLEYDEDR LEHIAYVRARELHTLEVTGLET VAQSKAHVASLEGLIPEDKVVL LAGSPLQNEATLGQCGVEALTT LEVVGRLGASL/HTSASKHTM VRALTYCSSREETFTAI
22904	53272	C	23037	236	379	
22905	53273	A	23038	178	534	VVQKTEPRLCFAVSPPFCSLPL PSLFPHSPLLGRPKRQAKPAAD EGFWDCSVCFRNSAEAFKCSI CDVRKGTS TRYLKICVTWVVV VI*QVFIEHTAICALGVQWYKD RPGPCSYGA

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22906	53274	A	23039	44	1012	VGGGGVQPSMTMGDKKSPTRK KRQAKPAADEGFWDCSVCTFR NSAEAFKCSICD\VRKGTSTRKP RINSQLVAQQVAQQYATPPPPK KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKTKPKSD\ILKDP PPS\EANSIQSANATTKTSE TNHT\SRPRLEKRG TGIAQQFG QLTVGVNVTVIITDFK\EKTRSSS\TSS SSTVTS\SAGS\EQQNQRQLRGFRG ATDKGSLPVPPNPKGRPC QAVNDESFLKLAHGNGKLWN SGVWKFQNLPPAACLHPWEN LSCGTSTSLVDCCQDNFLLCHG HSWPPRDFRH PDDYSGHF
22907	53275	A	23040	1	626	MAGCRNPCKAESHRSKSLLSEA ESLFREAESQHDRGSKNAGHR DESVEVWLSSLSSQTRAEIER QSRGKQWLRHLLRDTEGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRIAKLRV SADSFVRQQEAHAKPDNLTL EINPSGTFLTQALNHTYK/LRTN LQPSESTQSQDF
22908	53276	A	23041	1	951	MDAAEVEFLAEKELVTIIPNFSL DKIYLIGTWEKYREIRWLSQG PHGKPHADPGSSILQNSSGPSG VRTNGKSKPWEFPVAEEFAHQ FHESVLQSTQKALQKHGSVA VLSAEQNHKVDTSVHYNIP LQSSSRAPPPQHNGQQEPPTARKG PPTQELDRDSEQEQQEEDDEDGE DEEEVPKRKWQGIEAVFEAYQ EHIEERTLERNRSSTAADKAQL LAANRQGHGQPTDPASDNIPKA DEIRTLVKDMWDTRIAKLRV ADS\VRQQEAHAKL\DNLT\LM EIHTSG\TFLTQALNHYKLRT NLQPLESTQSQDF
22909	53277	A	23042	1	626	MAGCRNPCKAESHRSKSLLSEA ESLFREAESQHDRGSKNAGHR DESVEVWLSSLSSQTRAEIER QSRGKQWLRHLLRDTEGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRIAKLRV SADSFVRQQEAHAKPDNLTL EINPSGTFLTQALNHTYK/LRTN LQPSESTQSQDF

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22910	53278	A	23043	2	642	RPRRLLRDAEGPEETVRLWPAA RAAMDAAEVEFLAEKELVTIIP NFSLDKIYLIGGDLGPFPNGLPV EVPLWLAINLKQRQKCRLLPPE WMDVEKLEKMRDHERKEETF TPMPKPFTTLELT\KLLNHASD NIPKQDEIRTLVKDMWDTRIAK LRVSADSFVRQQEAHAKL\DN LTLMEIHTSG\TFLTQALNHMY KLRTNLQPLESTQSQDF
22911	53279	A	23044	3	1038	TSSMAAGCSEAPRPAAG\SDGS LVGQAGVLPCLELPTYAAACA LVNSRYSCLVAGPHQRHIALSP RYLNRKRTGIREQLDAELLRYS ESLLGVPIAYDNIKVVGELGDIY DDQGHIHLNIEADFVIFCPEPGQ KLMGIVNKVSSSHIGCLVHGCF NASIPKPE\QLSAEQWQTMEIN MGDELEFEVFRLDSDAAGVFCI RGKLNITSLQFKRSEVSEEVTEN GTEEAAKPKKKKKKKDPETY EVDSGTTKLADDADTPMEES ALQNTNNANGIWEEEPKKKK KKKH\QEVSRQDPCFSQGQLT S\SGYQSDHKKKKKRKHSEEA EFTPPLKCSPKRKGKSNFL
22912	53280	B	23045	82	323	

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22913	53281	A	23046	3	1624	QLEIRAPTADEIHVTVGARNLIPMDPNGLSDPYVKLKLIPDPRNLTKQKTRTVKATLNPVWNETVFVNLPKGDVERRLSVEVWDWDRTSRNDFMGAMSFGVSELLKAPVDGWYKLLNQEEGEYYNVPVADADNCSSLQKFEACNYPLELYERVRMGPSSPIPSPSPSPTDPKRCFFGASPGRHLISDFSLMVLCKGSGFKVMLAERRGSDELYAIKILKKDVIVQDDDVDCTLVEKRVIALGGRRGPGRPHFLTQLHSTFQTPDRLYFVMEYVTGGDLMYHIQQLGKFKEPHAAFYAAEIAIGLFFLHNQGHYRDLKLDNVMLDAEGHIKITDFGMCKENVFPGTTRTFCGTPDYIAPEIIAYQPYGKSVDWWWSFGVLLYEMLAGQPPFDGEDEEELFQAIMEQTVTYPKSLSLREAVAICKGFLTKHPGEAPGASGP*WGNLTIRAHGFFPLGFDWERLERLEIPASFSRPPRCGRSGENFDKFFTRAAPALTPPDRLVLASIDQADFQGFTYVNPDFVHPDARSPTSPVPVPM
22914	53282	A	23047	1	1522	MLRAPRQATRDHHFAHIDIVQVTCFRYLRRSALAPAPAMPSPVRVDRGSFPPVAGGNHTRRRGGTPQEGVTREALAFFDVVATTGAEMMWSNFFLQEENRRGAAGRRRAHGQGRSGLTPEREGKVKLALLAAWAPRWCCPWAPSSGWTQHLQGQRQRVRSGPTWGCGRRAPSGCGRRTCPWTGTPAAPRSCPEASERNSEHPALICTLPQPHMLKRRARRAPGSMAPPLPRPPQAASVPVFPPDWEPLESRARSKSPLHSQHRPAQETGRHSRPRTSTRKRQQKHSTEKAHTPERAPKPQTRENNPKGRAQGSPAPRDHNPASRHQKTSNDKRSTHDTHKTRKDSQTRRKKTRNNEKQQPDR/IGPQIIAYQP/YGKSVDWWSFGVLLYE/MLAGQPP/FDGEDEEELFQAIMEQ/TVTYPKSLSLREAVAIC/KGCGRSGENFDK/FFTRAAPALTPPDRLV/LASIDQADFQGFTYVNP/DFVHPDARSPTSPVPVPASSPTRPQLLENKFGC

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22915	53283	A	23048	505	2345	SIWGMVMMNPTPSSITLRRMM SLFPASLTTKYGGFYINSGTLQF RQASESEDDFIKEKKKKSPKRR KLKEGGGEKIKKKKKDDTYDKE KKSKKSKFSKAGFTALNASKEK KKKKYSGALSVKEMLKKFQKE KEAQKKKREEEHKPVAVPSAEA QGLRELEGASDPLLSLFGSTSD NDLLQAATAMDSLTDLDLEHL LSESPEGSPFRDMDDGSDSLGV GLDQEFRQPSSLPEGLPAPLEKR VKELAQAARAAEGESRQKFFT QDINGILLDEIAQTRELSSQVRS GVYAYLASFLPCSKDALLKRA RKLHLYEQGGRLKEPLQKLKE AIGRAMPEQMAKYQDECQAHT QAKVAKMLEEKDKEQRDRIC SDEEEDEEKGGRRIMGPRKKFQ WNDEIRELLCQVVKIKLESQDL\ ERNNKAQ\AWEDCVKGFLDAE VKPLWPRGWMQARTLFKESRR GHGHLTSILAKKKVMAPSKIKV KESSTKPDKKVSPSGQIGGPIA LPSDHQTGGLSIGASSRELSQA SGGLANPPPVNLEDSLDEDLIR NPASSVEAVSKELAALNSRAAG NSEFTLPAPSKAPAEKVGGVLC TEEKRNFAKPSPSAPPASSLQS
22916	53284	A	23049	1	379	AYRNFTSASDVWSYGVIMWEV MSYGERPYWDMMSNQD\PNTAL LDPASPEFSAVSVGDWLQAIK MDRYKDNFTAAGYTTLEAVVH VNQEDLARIGITAITHQNKILSS VQAMRTQMQQMHGRMVPV
22917	53285	A	23050	1	123	
22918	53286	A	23051	3	221	
22919	53287	C	23052	80	379	
22920	53288	A	23053	71	924	AFSVNSSNSWEKA*SQKCLQV NYLSLSSASYLP/CMTCPPSAPL NLISNVNETSVNLEWSSPQNTG GRQDISYNVVKCGAGDPSK CRPCGSGVHYTPQQNGLKTTK VSITDLLAHTNYTFEIWAUNGV SKYNPNPDQSVSVTVTNQAAP SSIALVQAKEVTRYSVALAWLE PDRPNGVILEYEVKYYEKDQNE RSYRIVRTAARNTDIKGLNPLTS YVFHVRARTAAGYGFSEPLE VTTNTGNKDHPDSVTSEAIFIQ LNPITVSKELSVIFGSADILLQ

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22921	53289	A	23054	1	1102	MRWLLKWERKYTLYSSGVLK HKNLLESLLGQFLGPPAQRFDS AGGVRPKNDGRFTVIQLVGML RGIGSGMKYLSDMSYVHRDLA ARNILVNSNLVCKVSDFGMSR VLEDDPEAAYTTRGGKIPRWT APEAIAYRKFTSA\SDVWSYGIV MWE\VMSYGERPYWDMMSNQD VIKAIIEGYRLPPPMDCPIALHQ LMLDCWQKERSDRPKFGQIVN MLDKLIRNPNSLKRTTESSRP NTALLDPSSPEFSAVVSGDWL QAIKMDRYKDNFTAAGYTTLE AVVHVNQ\EVSTQRCNTKGDL ARIGITAITHQNKLIS\SVQAMR TQMQQ\MHGRMVPLSTVLNK LKTLEISLPHPCTLIEELHFFNFV
22922	53290	A	23055	148	3229	NAFRFHLLNPAGESHDLRQLDLL SAVRSPTRQEQRWHRRTMAG IFYFALFSCLFGICDAVTGSRVY PANEVTLLDSRSVQGELGWIAS PLEGGWEEVSIMDEKNTPIRTY QVCNVMEPSQNNWLRTDWITR EGAQRVYIEIKFTLRCNSLPG VMGTCKETFNLYYYESDNDKE RFIRENQFVKIDTIAADESFTQV DIGDRIMKLNTIEIRDVGPLSKK GFYLAQDVGACIALVSRVFY KKCPLTVRNLAQFP
22923	53291	A	23056	57	450	VGDCLTSRGMSWVQATLLAR/ ALCRAWGGT/CRGALTGTSISQ VPR LAP\RGLHCSA/ASVSSEQS LVPSPPEPRQR/PPGGERDKASF LQTVQKFADTSVVDGSHIDFIY LALRKMREYGVERDLAVYNQL LNIFP

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22924	53292	A	23057	89	1502	VGDCLTSRGMSWVQATLLARG LCRAWGGTCGAAL/SQEPPSLR SLASLPRGLHCSAAAHSEQVIL VPSPPEPRQEGPPRLLVPFEGPV LGQGAGLGERGQGRAFL/LDGC RNLRTTSVRKRGPH/VDLFYLA LRKMRE\YGVERG/DLAVYNQL LNIFPKEVFRPRNIIQRIFVHYPR QQECGIAVLEQMFENHGVMPNK ETEFLLIQIFGRKSYPMLKLVRL KLWFPRFMNVNPFPVPRDLPQD PVELAMFGLRHMEPDLSARVTI YQVPLPKDSTGASKIPPKPHIVG HRACMSPHQESKKSRSKAAAL\A RHNPSPRPVFVEGPFLWLRN K\CVYY\HILRA\DLLPPEEEGK WKRTPEEWEL\YYP\PRQLDEY VRSG\WDNYEFDINEVEEGPVF AMCMAGAHDQ\ATMVVKWIQ GPAGDQPQTLAQNPWSFRLRR VQPGELPDILLQGWRSP/HPAR GPPRKTTTCKRQQQGPELV
22925	53293	A	23058	1	2517	
22926	53294	A	23059	1	927	IIVVEFVSRGLARAPSGPAVFSH LAMARLPLRGVRWGCLLTAVH PEPPTACREKQYLINSQCCSLCQ PGQKLVSDCTEFTETECLPCGE SEFLDTWNRETHCHQHKYCDP NLGLRVQQKGTSETDTCTCEE GWHCTSEACESCVLHRSCSPGF GVKQIATGVSDTICEPCPVGFFS NVSSAFEKCHPWTSCETKDL\V VQQAGTNKTDVVCGPQDRLRA L\VVPIIFGILFAILL\VLVFIKKV AKKPTNKAPHPK\Q\EPQEINFP DDLPG/SSNTAAPVAGRIFTWG GQPV\TQEDGQRESHFSCRERQ
22927	53295	B	23060	24	439	
22928	53296	A	23061	1	582	
22929	53297	C	23062	1	2607	
22930	53298	A	23063	248	430	ATNYTREQDSMWNCVR*GRTT ATTHSVTVQRTDERQRRADTAL TLADYRNTSVTGVFAGLF
22931	53299	A	23064	776	1426	
22932	53300	A	23065	284	598	VFRLLRGQKSEPGKSRPKAL*N KPANTPVQSHISLYAAGIINSDS KVR*SCRQSSARQSGSYL*TSPR SPQNRQQTGEITATVIAFGRTRR TAPDITPHPASAR
22933	53301	A	23066	3139	3792	

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22934	53302	A	23067	2	830	GVPNMAAPQDVHVRICNQEIV KFDLEVKA\IQDIRDCSGPLSAL TELNTKVKEKFQQLRHRIQPVL YQRIFIWTASTFFFKLTYSLTDF SSTQHDFNSPTTPVTFSDL\EQL A\KEQDKESENQ\LLQEVENHK KQMLSQNQASWRKANLTCKIAI DNLEKAELLQGGDLLRQRKTT KESLAQTSSTITESLMG\ISRMM AQ\QQQQSEEAMQSLVTSSRTIL DANE\EFKSMMSGT\IQLGRKLITK YNR\RELTDKLLIFLALRLFLAT VLYIVKKRLFPFL
22935	53303	A	23068	1231	1458	
22936	53304	B	23069	1	2133	
22937	53305	A	23070	722	957	VFRLLRGQKSEPGQKQAKSTLE QTSEYPSNRGIP\IIRQSECSIRTPL PFVRALRD*VRGCGCAPLSSVD SFFCCTEAL
22938	53306	A	23071	2	1137	VPNMAAPQDVHVRICNQEIVKF DL\EVKAPIQDIRD\CSGPLS\AL TELNPKVKEKFQQLRHRPTGP/ VEQLAKEQDKESEKQ\LLQ\EV ENHKK\QMLQQFRPSWEGKLN SSPGKICNSDNLEKAELLQGGD LLRQRKTTKE\SLAQTSS\TIT\ES LMG\ISGRMMAQQVQQSEEAM QSLVTSSRTILDANE\EFKSMMSGT \IQLGRKLITKYNRRELTDKLLIF LALALFLATV\LYIVKKRLFP\IF VRFPKVPVLAPFNSLFGICPWF PEAPRLPKAEAHTPLRFAPQLP CRLGWEHQCPPLFLQSSWLVK GEQSPWEEGP\GIGMPP\LGTYEP PPSHHCALWEAAA\WSTLKSE PPRTRMPLSPAPIVPLNARSGG GKREER
22939	53307	A	23072	64	665	RVRGGEAELAMAAAEE\SGAP NVPNRERGGAGRPKTPFECNIC LETAREAVSVCGHLYCWPCL HQWLETR\PERQECP\VKAGIS REKVVPLYGRGSQEAPRIPELK TPPPP\RGQR\PAPE\SRGGF\QPF GDTGGFHF\SF\GVGAFF\GFFT TVF\NAHEP\RRGTGV\DLG\QG HPSLQLGKEFPLPGFSAI\FFLFW

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22940	53308	A	23073	1	416	MQRRRRRRLLLPPRRQTDRAL PPPPSPGSMPPLPPP/PPARGG GLRPGDGLYPK/PSPARRGSGA RTSWCTMCAPPSTSAPRASRRP RPSSCATRPPTSKEPPA\GHAPH PPPRDLGGGLDSGVQSDGVQLQ HLQRPGH
22941	53309	A	23074	1	1713	
22942	53310	A	23075	1305	1538	LKVKRNCCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAYRKRKKGHKSSLSLV KINKTAAANK
22943	53311	A	23076	49	355	
22944	53312	B	23077	253	471	
22945	53313	A	23078	1267	1497	LKVKRNCCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAYRKRKKGHKSSLSLV KINKTAAANK
22946	53314	A	23079	3	1237	HEVAGAVPGAIMDEDYYGSAA EWGDEADGGQQEDDSGEGED DAEVQQECLHKFSTRDYIMEPS IFNTLKRYFQAGGSPENVIQLLS ENYTAVAQAVNLLAEWLIQT GVEPVQVQDTVEYHLKSLLKH FDPRIADSMFTEEGETPAWLE\Q MIAHTTWRDLFYKLAEEAHPDC LMLNFTVKLISDAGYQGEITSV STACQQLEVFSRVLRTSLATILD GGEENLEKNLPEFAKMVCHGE HTYLFAQAMMSVLAQEEQGGS AVRRIDQEVRQFAQEKTQLTQE AIITVKGVSLSSYLEGLMASTIS SNASKTIVAAAMSNLVPPVELAN PENQFRVDYILSVMNVPDFDFP PEFYEHAKALWEDEGVRACYE RSNEYQLIDCAQYIFVLEMQVP CCEEAQSHPGQHGGVQVGRN
22947	53315	A	23080	1358	1589	LKVKRNCCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAAYRKRKKGHKSSLSLV KINKTAAANK
22948	53316	A	23081	33	458	GITGSTDASGVTMKFNPVFSD RRKNRKRHVNPASHVRRKIMS SPLSKELRQKYNVRSMPIRKDD EVQVVRGHYKGQQIGKVVHV YRKYYVIYIERVQREKANG/DK DRKKILERKAKSRQVGKEKGK YKEELIGKMQEYIEP
22949	53317	A	23082	1	576	
22950	53318	B	23083	37	276	

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22951	53319	A	23084	124	549	NNSLSSPVQADVYFPRLIVPFCG HIKGGMRPGKKVGVGMGIVDLN PKSFAINLTCGDSEDPPADGAIE LKA VFTDRQLLRNNSCISGERGE EQVSNPLLSIHSTTMPFRVEILC EH\HCFR\VFV DGHQLFDYHPH SNRYLAI
22952	53320	A	23085	1	215	QGFIKPPLKEENFTLPPPGKFGP PKGSLNSPPS/PSSP*SPGGGILL VYYLYRALFQKGCKEAAWLEY PLT
22953	53321	A	23086	533	983	PWGPGCNKRWPCLAKDPPPTP QSSGVGQPFGGAEPAGAYIRTG PHLGPPPPPPPDSSNLHSPNPS DDGADTPLAQSDEEEERGDGG AEP\GPAASSGPLAYRPDPAGY SPTSRPPGPSPEPLG/AEDPDSSL ASRAPRGNGNWWDGCTL
22954	53322	A	23087	1422	1670	NRYIDKTGWA WWLTPVIRHFR RPRWVDCRLGVREQPGQHSKI KSLQKNAK\ISQA WWHAPVDP ATWKADAGGSLEPGSLRLQ
22955	53323	A	23088	2	663	VLLDERSAALDGAKR DGT LAL AAGALCREARAAQVFVFLKG EAFSASCPELCSKQ/INVSANCP NHFEGHYQYKSILCGMTTHKA DISSWFNEAIDFIDS IKNAGGRV FVHCQAGISRSATICLAYLMRT NRVKLDEAFEFVKQRRSIISPNF SFMGQLLQLESQVLAPHCSAEA GSPAMAVLDRGTSTTVFNFPV SIPDHSTNSALS YLQLS LIT TSSHC
22956	53324	A	23089	3	206	

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22957	53325	A	23090	982	2252	LFLEKRRPALGPENRQRAPQGR STL GALRPAMVMEVGT\ DAG GLRAL\ LGERAAQLPACLD CRS FFAFNAGHIAGSVNVRFSTIVR RRAKGAIGALEHIVPNAELRG RLLAGAYHAVVLLDERSAG\ LD GAKRDGT\ LALAAGRA/LCREA RAAQVFF/LSKGGYEAFSASCP ELCSKQSTPMGLS\ LSLS TSV PD SAESGC\SSCSTP\ LYD\ QGGPVE ILPFLYLGSA\ YHASRKD\MLDA LGHRLPWINVLSQIVPNHF\ EGH \YQYKSIPVEDNHKADISFWFN\ EAIDFIDS\ KNAGGRV\ FVHCQA GISRSAT\CLAYLMRTN RVKLD EA\ FEFVKQRRS\ IISPNFQLHGA SLLQFEFPRMLGPALFRAEAGK PRQMAVL\DRGT\STTTVFNF PV SIPVHSTNSALSVPFRAPLTDLS QLVERPTGR
22958	53326	A	23091	13	287	
22959	53327	A	23092	1	492	
22960	53328	A	23093	1	636	
22961	53329	A	23094	1	506	PTRTWTRGRIPRLSAQPSRGAR GTMADPRVRQIKIKTG\ VKRL V\KEKVLYEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QES\ R MMIP\DCQRR\LEAAYLDLQRI LENEKDL/EKEAEEYKEAR\ LVL DSVKLESLKLF SYGVVFALKPR GPILQSIIFDHVLCVQV
22962	53330	A	23095	1	786	
22963	53331	A	23096	183	1059	VLGAFIWQGLDPSPETAFTDHR A\TEWGTNDQSLCLNSP*\DAPS AKHEYQASVSGSVSSKPEIDLQ LYDEV RDQDV PVKRN FARI VV NVSDTNDHAPWFTASSYKGRV YESAAVGSVVLQVTALDKDKG KNAEVLYSIESGSHPPYKTAAD VLLKAPPPGWRPTNTKPVHSTE AQPTQNQRTQQKHNQGASRSP RHSFATSTRAGAGICGCKTRRW MTRWMEESRGSLQTLPSTRLEP GSSAAWLDPEEQAQSLQFSSQE APFLGEGGENHIKGVPHGTKES QQQPLNHRSSL
22964	53332	A	23097	1	1224	
22965	53333	A	23098	1	660	

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22966	53334	A	23099	129	595	LFPRLSCLTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIV MALSPRGWRSKFGMPWHSKPT WIMTL*FPLEKTGALS LTS DTS MFTVVVLTLGGLPLSEA*T/GG NYDHF DVKGTGTIVAKPLD AEQKS NYNLTVEATD GTT ILT
22967	53335	A	23100	1	1782	MAARIEVIHELSIRLLL MKTDL DATA ALL NVQPAKSGDNTSG APFPGKISQTLKDPHNGYHVV FALAGSPKDADDTSIYMFYQK VGDNSIDS WKNAGR VFKD SDK FDANDPILKDQTQEW SG SATFT SDGKIRLFYTDYSGKHYGKQSL TTAQVN VS KSDD TLKING VED HKTIFDGDK TYQNVQQFIDE NYTSGDNHTLRDPHYVEDKGH KYL VFEANTGTENGYQGEESLF NKAYYGGGTNFFR KESQKLQQ SAKKRDAELANGALGIIELNND YTFEKSNEAADHF K HGGGATIK GRVADNGKPQLSSLTYIDIRVIE ESIYPPA I LPLEIFITASGEE YSGG VIGKIHATDQDVYDTL TYSLDP QMDNLFSVSSTGGK LIAHKKLD IGQYLLNVSVTDGKFTTVADIT VHIRQVTQEMLNHTIAIRFANL TPEEFVG DYWRNFQRALR\N GVRRNDI QIVSLQSSEPHPHLDV LLFVEKPGSAQISTKQLLHKINS SVTDIEE IIGVRLNVFQKLCAG LDCPW KFCDEKVS VDESVMST HSTARLSFVT PRH HRAARQQ\R G PPLHNPADT*TTARKY NC DKR
22968	53336	A	23101	184	13958	AMGRHL ALLLLL LFQHFGDS DGSQRLEQTPLQFTHLEY NTV QENSAAKT YVGHPVKM GVYIT HPAWEVRYKIVSGDSENL FKA EYI LGDFCFLIR IRTKG GNTAILN REV KDH YTLIVKALEKNTNVE ARTKVRVQVLDTNDLRPLFSPT SYSVSLPENTAI RTSIARVSATD ADIGTNGE FYY SFKD RTDMFAI HPTSGVIVLTGR LDYLET KLYE MEILAADRG M KLYGSSGISSMA KLT VHIEQANECA
22969	53337	C	23102	56	331	

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22970	53338	A	23103	2249	2680	GEFLKTREFSIYFLEKYTTFPGE NLEHGFWDSSSTSPPVLLHPGIPA SRI/PVSSIFTKVPPKKSATKP/PV SIWGAPPLGPPGFWGCCPTGEQ RGVCHPSEPHPPVVDFRKKPPF LCVSLSLINIFKSNKFLLTCNL VIFYTCSL
22971	53339	A	23104	739	1672	CQEAASEFGGPLHTPAMFLRRL GGWLPRPWGRRKPMRPDPPYP EPRRVDSSENNSGSDWDSAPET MEDVGHPKTKDSGALRVSRAA SEPSKEEPQVEQLGSKRMDSLK WDQPISTQESGRLEAGGASPK LRWDHVDSGGTRRPGVSPEGG LGVPGPGAPLEKPGREKLLG WLRGEPEGAPSRYLGGPEECLQI STNLTHLLELLASALLALCSRPL LRAALDTLGLRGPLGLWLHGL LSFLAALHGLHAVLSLLTAHPL HFACLFGLLQALVLAVALSLREPN GDEAATDWESEGLEREGEEQQR GDPGKGL

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22972	53340	A	23105	122	2437	RLEKLPLWTMRFTEMELLGH LSIFKITGKQKQLTRTAPGPSGQ LRSNQTTGNSLEPSGQPRSSQTT GNSLEPSGQPRSSQTTGNSLEPS GQPRSSQTTGNSLEPSGQPRSSQ TTGNSLEPSGQPRSSQTTGNSLE PSGQPRSSQTTGDSLEPSGQLRS NQTGDSVQPNNREQPGTVRS APLQPNNREQPGTVRSAPLQPN NRGQRPTKQQGTTWNRQVSSA PTKQQGTAR\PSGQPRSNQTTG NSLEPSSQLRSNQTTGDSVQPN NREQPGTVRSAPLQPNNRGQRP TKQQGTAR\PSGQPCSNQTTGN SLEPSSQLRSNQTTGDSVQPN REQPGTIRSAAPLQPNNRGQRWD RQVSSAPTKQGTALGPSG\SSAP TKQQGTALEPSSQLRSNQTTGN SLEPSGQPRSNQTTGNSREPSSQ LCSNQTIGNSQDRQVSSAP\IQT TGNSQDRQVSPAPTKQQGTAG NRQVSST\PIQTGNSVQPNNREQ PGTVSGAM\VVVATPVKGPAR VETSCHKSAAGLPKKT/QPG VTGGAPRLLTNTVLPKHSRTPS RHEAGSTQALYHNGQAQYALS FPHEAAPMAAFYVVTGIEVTTA LTLEEAPCTVEITTALEPPC TVFWNKTERNTRTLVQDKGSN TKGFVQTATCCFRADCKASRPS PHPPSPHREWTSDLRKHQVSKF PGAHLRPGHPELPIQEAWDRGE
22973	53341	A	23106	605	813	LFVFINFRENPAALLRW\AYAR\TI NVYP\NFRPTPKNSLMGALCGF GPLIFIYYIIKTERVSIQTRCLVF
22974	53342	A	23108	273	936	AYSNKPSWNQKA\PSPTKPAG TLIFDFPAVKTRNKFVFFINYP VSGYTEDLKKFLKPYTLLEEQKN LTVCVDGALFEQKGPVYVACQ SPISLLQACRGMNDLDFGYSQR NPCILVKMNRRIIGLKSEGVPRI CVSKNEDIPNVAVYVPHNGIIDL KYFPYYGEKLHVGYLQPLVAV QVSFAPNDTGKEVTVECKIDGS ANLKSQDDRKFLGRVMFKIT
22975	53343	A	23109	104	478	ETEVGGLVEASMSHNCTTALQ PGQHSQKENLQNKPPIPGRKY* VSIEFELIYFP\YYCQVGYLQPL VAVQVSFAPNNTGKEVTVECKI \DGSANLKSQ\DDRDKFLGRV MFQNHSTVHMSRVSSTE

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22976	53344	A	23110	3	903	LLSPVRAHTMTKNEKKSLNQSL AE\WKLFIY\NPTTGEFLGRTAAS WGLILLFYLVFYGFL\AALFSFT MWVVMLQTLNDEVPKYRDQIPS PGLMVFPKP\VTALEYTFSRSDP TSYAGYIEDLKKFLKPY\T\LEEQ KNLTV\CPDG\ALFEQKGPVYV ACQFP\ISLLQACSGMNDPFG YSQGNPCILV\KLNRIIG\LKPEG VPRIDLCKRMKDIPNVAVYS\HNG MIDLKYFPYYGKTAMF/VGIYQ PIGLLVQVSFAP*QPLGK EVTVE/CAKIDGSSQPKKVQDD RDKVFGDEFMFQIHSTVH
22977	53345	A	23111	467	931	SRDSRRGTPLAGGRGRDFAGQ MGHRVQGRHGSRGRLPSGDAR VNAERAEPVGAGAGGPGGGSS VRGFCGRSWSEA/RGRRRAGG GVH\IEP\RYRQFP\QLTQIPRCSQ SEF\SGLMWF\WIFWRFWHDP K\KVLGHFPV/YPDPSQWTD\EE L\GIPPDD
22978	53346	A	23112	1	390	VTIPTSLAELQQLPHIRVFLDNN PWVCDCHMADMVTWLKETEV VQGKDRLTCA\YPEKMRNRVLL ELNSADLDCDPILPPSLQTSYVF LGIG*ALIGAIFLHYRNGPLTIS SEGGLASLLCKDSRGVPLL

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22979	53347	A	23113	3	1653	PQRIGRVPTRGEEVAPGRRQE EEREQERGAERPDPPCVLSGGK GRGNRPLREAPGEGVSQVPA AAPLPRFHERKVFFFQTLPPAR ALRAQPPEPSERAPSQPSGETR AAMPGGCSRGPAAAGDGLRLA RLALVLLGVVSSSSPTSSASSFS SSAPFLASAVSAQPLPDQCPAL /CACRSEAARTVKCVNNRLTE VPTDLPAYVRNLFLTGNQLAVL PAGAFARRPPLAELAALNLSGS RLDEVRAVAFEHPLSLRQLDLS HNPLADLSPFAFSGSNASVSAPS PLVELILNHIVPPEDERQNRSFE GMVVAALLAGRALQGLRRLEL ASNHFYLPRDVLAQLPSLRHL DLSNNSLVSLTYVSFRNLTHLE SLHLEDNALVKVHNGTLAELQ GLPHIRVFLDNNPWVCDCHMA DMVTWLKETEVVQGKDRLTC AYPEKMRNRVLLELNSADLDC DPILPPSLQTSYVFLGIVLALIGA IFLLVLYLNRKGIKKWMHNIRD ACRDHMEGYHYRYEINADPRL TNLSSNSGCLEEILEDPRPTTLH
22980	53348	A	23114	288	877	ASRLSLPRTSMRSSSTSPSSSS SSSSLCRFLNSRVTDAAFNLL VWYYCTLTIRESILINNGSRWG RAGPEGGEHGMGCQGPGSKGR EQGAGG*WWVFCSRV\KGWW VFHHYVSTFLSGVMLTWPDGL MYQKFRNQFLSFSMYQSFVQF LQYYQSGCLYRLRALGERHT MDLTVGESGVALASGHSPFLPS

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22981	53349	A	23115	1	1273	MAPLHSILGNRVGLCQASVRA CPGATVSSQCRASLRSRLAWRG SELPANRGRTWPGPGGLRLQA APRLAYLGRATLLVLTYYDLP PNVRFITSMPASPHTYFLVLGAPI FLLRSTWSYYHACRFYATPN DRNTTYLAISGPTRRTYDVATF AYKDEYEKFKLYLTIIILISFTC RFLLNSRVTDAAFNFLVVWYY CTLTIRESILINNGSRPDGLMYQ KFRNQFLSFSMYQSFVQFL\QY YYQSGCL\YRLRALG\ERHTMD LTVEGFQSWMWRGLTFLLPFL FLW/YNSGQLFNALTLFKPGPR DPQLQGVGRCLCCGFPFL\FL GNFFTTLRVVHHKFHSQRHGS KKDLRLGLSPCRPRRGFLVPVC FWEGDWEGAPSSVRVSGGLFY SPLGFMGRGCGPKEDPGPSCPQ
22982	53350	A	23116	238	398	
22983	53351	A	23117	1	386	
22984	53352	A	23118	13	580	
22985	53353	B	23119	39	1171	
22986	53354	A	23120	381	795	PPSSKAPSSKGPAKIVCIYWALI LQSNEVTITEDKFNNLIKAAAV TVEFWPSFFAKALASVNIGSLL CNAVG/SMAPAACTAQAGGP ATSTTAASASFRNHNPRIAPKFR GVLAEQYLSE RATWWAPNP NPKSLF
22987	53355	A	23121	1	960	
22988	53356	A	23122	2	3952	
22989	53357	A	23123	1058	1494	KSVRLVVN/YLRTQKAVVRVSP EVPLQNILPVICAKCEVSPEHV LLRDNIAGEELELSKSLNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPPAGSPSPCPSSS SSSSGLRGGMQTANGPACALTP TCAQTDCPCPTSH
22990	53358	A	23124	195	398	TDSSSALQPQHGRGPALRQRT PRRSP/SPGLSPPRGASPAS\SGA PARGVAFGGDEPPIGAEAMYSK P
22991	53359	A	23125	2	155	
22992	53360	A	23126	1	339	

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22993	53361	A	23127	150	1017	LGRWRQDQVPHGLECRSQSEW SCTDSRQHSS\YSDSRRQEIGK MRYVSVRDFKGKVLIDIREYW MDLKRLPRKPRTEAGSGSLSS PGADTPVEAAVTWRLGLGSVD VGSFRAWQRGKSAAVGHTVSP RWPRWQGGDSSALSMASLSTL TCSWGLRYSALSPTTSAQREEG SALYRHLSPSLRFYPTVKWAT LAITRPRPPAPRSHSHHPQPRAL CPVWVLFQHPKTHGENLGDRW KEGSALVSSKGTPAKLSSGRIR NALQNTLGEVSVARIQTHRGIF VETTEARL
22994	53362	A	23128	1	584	APIECGGIPSLPVLCQSRANDQE GVRLLEPSEAMPKSKELVSSSSS GSDSDSEVDKKLKRKKASLL/P ENPVKK\QKTGETS\RALSSF*TE PASSRDDNMFQIGKMRYVSV\ RDFKGKSA*FDIREYWMDEPEGE MKPERKGISLN\QQWEPSLKE QISGPLIDASKKTCKISEPILIKPC TVPVVLICLVTAVCF
22995	53363	A	23129	186	687	LLWARGLGRAKSAVPTVSTML GLPWKGGLSWALLLLGSQLI LIYAWHFHEQRDCDEHNVMAR YLPATVEFAVHTFNQQSKDYY AYRLGHIFNSWKEQVESKTV\F SMELLGRTRVWEYLKTTIDNC HFQESTELNTFTCFFTISTRPW MTQFSLLNKTCLEGFH
22996	53364	A	23130	232	402	LFKAWECKFLIFLQVVITRLKLD KDRKKILERKAKSRQVGKEKG KYKEET\EKMQE
22997	53365	A	23131	637	758	NVEEKNRKKILERKAKSCQ\K KEKGEYKEETIGTMRECGL

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22998	53366	A	23132	1	1095	IVFLLYLETCLEVMDDKPNPEA LSDSSERLFSFGVIADVQFADLE DGFNFQGTRRRYYRHSLLHLQ GAIEDWNNESSMPCCVLQLGDI IDGYNAQYNASKSLELVLW\Q FKRRKGPVHHTWGNHEFYNFS REYLTHSKLNTKFLEDQIVHHP ETMPSEDYYAYHFVFPKFWF1 LLDA\YDLS\ALGAWDQSSPKYG GSVWKILEGSHNP\NTGNWNSS SRDFSEA/RSLFQFNGRVSQAQE LNWLNEVLTFSDTNQEKKVVIVS HLP\LYPGPPFDNVCLAWNYRD ALAVIWSHECV\GVSLLGHTHD GGYSEDPFGVYHG\NLEGVIET APDSQRFGTVHVYPDKMMLKG RGRVPDRIYELQGKEEPSHC
22999	53367	C	23133	235	382	
23000	53368	B	23134	63	293	
23001	53369	A	23135	160	330	
23002	53370	B	23136	1	870	
23003	53371	A	23137	2	1013	
23004	53372	A	23138	1	1552	
23005	53373	B	23139	120	1034	
23006	53374	A	23140	1	584	RTRGRRLS LAFLLAERGAAAA VLWSGCRFRARLGCLPGGLR VLVQTGHRSLTSCIDPSMGLNE EQKEFQNAAFDFAAREMAPNM AEWDQKELFPVDVMRKAQL GFGGVYIQTDVGGSGHVRD SVIFEALATGCTSTTA\Y\IRHPQ CPQSQHSFVQEGGTHYKAGHL CCRQWGPRACLPPGRPCHRGA
23007	53375	A	23141	2	412	
23008	53376	A	23142	47	487	
23009	53377	A	23143	77	459	GWKGIEHTLGRCLEAQGVINY RMLLSWRRWLVAHPVF*SFSC VGPGVGS*RMTMLHCRHSDPV AKRLSCRRGDFASVVVLCPPPQ RLRTLKHFLFFGGLPLSIDFVMT VDFCCCHLHLTDFSSNFGF
23010	53378	A	23144	1	304	KVAGSPSPTPAGQQVLDVNSCL DSSVLDSSFLTFSGLHAE/AEGS TGGPAALAYLGLKTLCTSQQAF AGQMKSDFLDDSKSDLEEPW ELRKEGAPRSRDRE
23011	53379	A	23145	1	207	
23012	53380	A	23146	1	3009	
23013	53381	A	23147	3	298	
23014	53382	A	23148	1	636	
23015	53383	A	23149	1	795	

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23016	53384	A	23150	125	1527	SSPRQQTQLARVHP/DGRAQ/LA PSCLPGLGLCPLPVCPPVCNCPA CPCHEHCGEAP*GVA\AKRGAL RVHPHPSCGGPRAMTVTLHGQ DVLMPLGDLVGLQHDAGPGAL LHCSPAPGHPGPQAPYLSANAS SWLPHLPAQLKGTWACPACAL RLLAATEQLTVLLGLRPNLGLR LPGRYEVRAEVANGVSRHNLS CSFDVVSPVAGLRIYPPRDG RLYVPTNGSALVLQVDSGANA TATARWPGGSVSARFENVCPA LVATFVPGCPWETNDTLFSVVA LPWLSEGEHVVVDVVVENSASR ANLSLRVTAEEPICGLRATPSPE ARVLQGVLVVLLAGSSGYLVG FKFLESHGSDSGSANSFHCLISQ NEFKTLLPDLTRAPRYSPVVEA GSDMVFRWTINDQSLTFQNV VFNVIYQSAAVFKLSSLADSAP RPRWRLQSPRVGRLSPDPGFFG SPGPCQPRQLQAFLI
23017	53385	A	23151	648	1387	ASTQSLLAWCPAWLSIPSTWPS SFSSGCPG/CKAQPVYEVSRSSY VYLEGRCLNCSSGSKRGGYTFT LTIVLGRSGEEEGCASIPLSPNRP PLGGSCRLFPLGAVHALTTKVH FECMGWHDAEDAGAPLVYAL LLQRCRQGHICEEFCVYKGSLSG YGAVLPPGFRPQFEVGLAVVV QDQLGAAVVALNRSLAITLPEP NGSAMGLTVWLHGLTASVLPG LLRQADPQLVIEYSLALTVLN ETYTESL
23018	53386	A	23152	2	654	DKHIWSIWDRPPRSCFTRIQRATCCVLLICLFLGANAVWYGAVGDSAYSTGHVSRLSPLSVDTVA AVGLVSSVVVYPVYLAILFLFWMSRSKV\AGSPSPTPAGQQVLDIDSCLDSSVLDSSTFTSGLHAEVINTLADHQHRGTDGGSPSVLII TVSLRSYKFAISLCTTYLWVINTLADHRHRGTDGGSPWLLIITVFLRSYKFAISLCTTYLC

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23019	53387	A	23153	2	4072	SRDPAGSYHNLSSHFRWSALQ VSVGLYTSLCQYFSEEDMVWR TEGLLPLEETSPRQAVCLTRHL TAFGASLFVPPSHVRFVFPEPTA DVNYIVMLTCAVCLVTYVMV AAILHKLDQLDASRGRAIPFCG QRGRFKYEILVKTGWRGSGT TAHVGIMLYGVDSRSRSGHRHLD GDRAFHRNSLDIFRIATPH\SLG SVWKIRV\WHDNKGLSLALGFL Q\HVIVRDLQTA\QSTFLVNDW LSVETEANGGLVEKE
23020	53388	A	23154	1	10922	MPPAAPARLALALGLGLWLGA LAGGPGRGCGPCEPPCLCGPAP GAACRVNCNSGRGLRTLGPALRI PADATALTAMAKADGDVKKY GSKRGALALTHGHSSLRDVSH NLLRALDVGLLANLSALAELDI SNNKISTLEEGIFANLFNLSEINL SGNPFECDCGLAWLPRWAEEQ QVRVVQPEAATCAGPGSLAGQ PLLGIPLLDSCGATLVGPHGPL ASGQLAAFHIAAPLPVTATRWD FGDGSAEVDAAGPAAS
23021	53389	A	23155	3887	14184	HVLCAWVTVMVMAAILHKLD QLDASRGCAIPFCGQRGRFKYE ILVKTGWRGSGTTAHVGIHA VWGGQPERPPAPGTATEPSTAT VWDIFQIRHPAQPGVACWKIRV FGTTTKGSALPRFPCSTSSSGTC RRHAAPSSWSMTGFRWRRRPT GAWWRRRCWPRVRPRSVFPLR HAALLRFRRLLGAEIQRGFFDK HIWLSIWDRPPRSYFTHIQRATC CVLLICLFLGANAVWYGAVGD SAYSTGRVSRNLNPLSVY
23022	53390	A	23156	1	442	GGASGMGGITASTVNQ\SLLSP LVLEVDP\NIQAVRTQEKEQIK\TLNNKFASFIDKVRFLSEQQNKM LETKWSLLQQKTARSNMDN MFESYINNLRRQLETLGQEKLK LEAEFTTWGPPMPATKQFN CFFFLVQNKTASSANVK
23023	53391	A	23157	1	497	
23024	53392	C	23158	208	422	

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23025	53393	A	23159	81	1339	ELSSPRSSFSAPS RISA WFGPPAS TPASTMSIRGTQKSYKGSTSGP RAFKQAAS*QRSGPGFRISSSF SRVGSSNFRGGLG\GGYGGASG \MGGITAVTVNQ/SRALLSPLVL EVDPNIQA VRTQEKEQIKTLNN KFAS\FI\DEVGFL EQQN KMLGT KWSLLDQQKTA\RSNM DNMF\ ESYINNLRRQLET LAQEKLKLE AELGNM QQLVEDFKNNYED\EI NKSTETENE FVLIK KDVDEAYI NEL YEEEIREL QSQIS DTSV VLSI DNSRSL DTDIIAEVKTEISEMN RNISWLQAE TEGLKG GRISLEA GIADAEQRREL VIKDANAKLSE LEAALQQTKKLLEMENMSIHT KT TSGYAGGVSLAYGGLTGSG LSYGLSSSSRSGAGSSSFSRTSST RAMVVKKIKTRDGKL LTL SLR
23026	53394	A	23160	1	651	MTAFNSGKV DIVA INDPFIDL YMVYMF LYDSTHGKF HGT AENGTL VINGN P ITIF QDQDPS KIKWAP/LAKVIHDNFGIIEGFM TTVHTITATQTINGPSGKLSRDG CRALQDIIPVSTGA AKPVGKVIP ELNGKLTGMAFHVPTANV SVA DLTCRLEKPA/KYDDIKK\NTHS STFDAGAAIVLKDHSVKLISWY DNEFGYSNRV VHLMAHN ASKE
23027	53395	B	23161	1	382	
23028	53396	A	23162	3	1151	ASA HASA VRQSAA IFFCVASRA HIA ETPLGKV KVGV VNGF GRIGR LVT RAFA NSGKV DIVA INDPFID LN YMVYMF QYDSTHGKF HGT VKAENGKL VINGN P ITIF QE\RD PSKIKWGDAGAEYRRGSPLGV FNQPWRKAGGSICKGGSQKGSS ISAPSAECPPCFVMGCEPMKKY DKQAFKIVISN\ASCTNQLL*HPL AKG*FHDNFGNSLEG LHDHKS MAITANPRKTV\GPSRGKLWP LMGR GAL\QNI PASTG\AAKAV GKVIPELNGKLTGMAFRVPTAN VSVV DLT C RLEKPA KYDDIKK VV KQASEGPLKG I LGYTEH QV VSSDFNSDTHSSTFDAGA\GIAL NDHFVKLISWY\DNEFGYSNRV \DLM\AHMGFQGS
23029	53397	A	23163	160	236	
23030	53398	A	23164	931	1124	
23031	53399	A	23165	132	303	

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23032	53400	A	23166	20	171	
23033	53401	A	23167	1008	1262	HELQCSLLPVRHATAGHTNGQ NRLHWGHVAHSNYGAALKTN GVEVR*FTAAIARCDGNPYESF RKDVRADFQTRIDAIVRCLPK
23034	53402	A	23168	732	1162	RCHEKGRKGHQAPTGSTRPDG TLSACRSCQQGQGMPASAGVP ARQMGSTGNLPHLV*PYFLGLS SKAQHTG*LHKKR
23035	53403	A	23169	2	1093	
23036	53404	A	23170	236	496	
23037	53405	B	23171	22	3084	
23038	53406	A	23172	305	522	LRDGRGSMSSSSPNSASGSAICP ASSVMPETVSRSRVMNVTKP A/MTAKQTRIRNQMVAITYIES DAWNRSYQ
23039	53407	A	23173	177	386	
23040	53408	A	23174	3	200	GAVAPMHPLAHPVPGAAAQPP PA*QPATPCHQPA*GQPAPPDV PGEPSAGRSLHHAHICLAPNEQ
23041	53409	A	23175	171	535	
23042	53410	A	23176	190	505	VPTDRIRTRLTSVCKRCEVHQ LEDRPFEVYQVA/PRRD*SFETS VWNHMRKQ/PPLDVRQLAS*N VLHRQLDIMDSAVASMYSIHLS IKMGIGFSGVTTVKGTPK
23043	53411	A	23177	349	1272	
23044	53412	A	23178	518	1451	VSSSIIMFGPLSQFPRQQVGSSV KRPSNVVCPGLMFSFFSSAA*IP **PLI*QPGV
23045	53413	A	23179	2436	2894	TSPDVLRAGPRVPSVQGTSPSQ SCPGQRPHGPNSKAYGR/LSVM AQYYCNVIPVLE/VPPSAFTPPP KVDSAVV/RLVPHATMPHPVK DVRVLSRITTEAFNQRRKTIRNS LGNLFSVEVLTMGIDPAMRA ENISVAQYCCQMANLAENAPL
23046	53414	A	23180	1846	2557	IPVSERQGSDWRFFSVYVNVKA GGLIYQLDSYAPTGLRLEKTFIS YPLDLLLKLHDERVLVAFGQR GRHPEWGHAVL\AINGMDVNG RYTAD\GKKVLEYLG\NP\ANYP VISYLFFAQPRL\TSNDKMLAL MFHSLFAIGSQACLP\EQGKPQG IENAWKTDFKLH\CYQTLT\GI KFVVLADPRQAGIDSLRKIYEI YSDFALKNPFSLEMPIRCELF QNLKLALEVAEKAGTFGPGS
23047	53415	C	23181	34	225	
23048	53416	B	23182	105	381	
23049	53417	A	23183	1	837	

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23050	53418	A	23184	3	744	HEASCRSERRRQMAFDFTYDD RAYSSFGGGRGRSGS\AGGHGS RSQKELPTEPPYTA\YVG\NLPF\N TVQGDIDAIFKDL\IRSVR\LVR DKVTGKF\GFCYVEFDEV\DSL K\EALTYD\GALLGDRSL\RVDF AKGRKTKIRVA\FGF\RKGGPDD R\GFRDDF\LGGRGGSRPGD\RR T\GPPMGSR\FRD\GPPLRG\SN\M DFREPTEEERAQRPRIQ\LKPR VWRPLNQVANPNSAIFGGARPR EEVVQKEQE
23051	53419	C	23185	1	1038	
23052	53420	A	23186	1	1486	MGRNQSRKAENSKHESTYSPP KDHSSSQAMEQS\WTENGFEKL G\FFRKEALYYLDLTASCQSQEL FQLYAGMSVVGTSMPVQAVCP YCGNRIITVTTFVPGALTWLLC TTLFLFGYV\LGCCFLAFCIRSLM DVKHSCPVCQREL\YYHRLRQ MELASSARTVVAPS\RPCAGREG RGDANGKNSSPTAGSAM\SEPP PPPQPTTHQ\AGVGLLDT\PRSRE RSPSP\LRGNVVP\SP\PLPTRRT FS\ATVR\ASQGPVYKG\CKCF CRSKG\HIGFNYPPAGWAGPDIF PGTSLDVGRGSYVPSKG\DEV TLLKCAPIPTKNE\KLAGPWEV VH\HSPWHPGT\KHET\WSG\HVI SFLGLV\ESTPLSLCFVGDFAG RRQQTLEDDILPHETGLQRGNG PSQVSPGGKGYGGAGVGCGVF PAISTAYGPLQQPLHH\LKS\KSH LKRRGAH\WLSGGSNPIPGSGS RVGISSQLA\QTHGLNPQN\NPSSS WSWRPQIPRSGPLAA
23053	53421	A	23187	2	617	
23054	53422	A	23188	1	993	
23055	53423	A	23189	779	1210	AAAGSEAGRRRGADPTRGPHV LPGSRQRRP\IFPSLDLSGFFLF CSEFCPEIKSTNPGISIGDV\AKE KKKLGE\WMNSLNDSEKQPYFT KAAKLKE\YEKDVADY\KSKG KFDGAKGPAKVAR\KKVEEDE QEEEEEEEEEEDE

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23056	53424	A	23190	116	522	KAPYSTNSLSPFPILFMGSGY RKGPTFQEPKPLPGA AARGPGC DPTQPPRHSAAPRDHGPP\SPRC PRPARPRASPAWLPPRAPT PPS PAPAAAPRSCRGHARASSGRSG TTATPRRRRGGLWNQSPMDIK G
23057	53425	A	23191	1	152	
23058	53426	A	23192	1	676	MWSAGRGGAAWPVLLGLLLA LLVPGGAAKTGAELVTCGSV LKLLNTHHRVRLHSHD\TYGS GSGQQ\SVTGV EASDDANSYW RIRGGSEGGCPRGSPVRCGQAV RLTHVLTGKNLHTHHFPPLSN NQE\SAFGE\EGEGDDPGTLW TVRCSGTA/HWEREA AAVRFQH VGT\VFLSVTGEQYGSPIRGQH EVHGMPQCQ\QHNTWKAMEGI FIKPSVEPSAGHDEL
23059	53427	A	23193	1	1044	
23060	53428	A	23194	1	1083	MTATLAAAADIATMVGSSGL AAARLLSR\SFLLPHNGIRHCAY TA\SLRQHLYVDKNTKII CQGFT GKQG\TPFHSQQALEYGTKLVG GTTPGKGGQTHLGLPVFNTVK EAKEQTGATG\SVIYVPPPFAAA AINEAIEVAEIPLVVC\YPRGIPQP GLGHSSSHKTCPGKDKAYWG PNCPGV\NPGECKIGIMPG\HIF HKKGRIGIVSTSGTLTYEAGH\Q TTQKLGLGQSLCVGIGGDP\FN GTDFID\CLEILFERFLPQEGIILI G\VEIGGNA\EEAAEILEPLYSGS KF\ARPVVS\FIAGLTAPPGRNN GVMPGAIISGREKGVGAKRERSS ALQSAGVVV\SMSPCTAGEPRF YKEFEKREDRL

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23061	53429	A	23195	1173	2110	FFTELEETILKFIWNQKRACISK ARVNTNDKSGGITLPDFKLYNE AIVAKTTWYWYKSRHIDQEKR REEKKE*KKDPSVPETLKKKQR NFTELKIQCLSKKFAQKMLQTA RRKLIYEKVKHCHKEYRKMVR TEIRMARMATKAGNFYVPAEP KLAFLVIRGNGVSPKVRKVLQ LFLYQIFNGAFVKLNKASINM LRIVEPYIA/WRYPNLKSVNELI YKCGYGKINKK*IALTDNALTA RSLGKYGIICREDLIHEIYTVGK CFEANNFLWPF/K/LSSPRGGM KKKTTHFVEGGDAGKREVQIN RLIRRMN
23062	53430	A	23196	3	571	GTMEGVEEKKKEVPAVPETLK KKRRNFAELKIKRLRKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRT\EIRMA\RMARK\AGN F\YV\PARTQI\WRFVIRIRGINGS EPQRFRKVLLQRLP\VKIFNG/T PFV\KLQQGFRNMLRDCRSHIL AWG\Y\PNL\KSVNELIYK\RGY\G QNQFDLHFPTEKRSHPGSQ
23063	53431	A	23197	2	340	PRVRPRVRD\SKMASVGEVSGP QYPV\DKKLL\EV\QTGGSFPSW \ILM\RG\SSPSG\IFG\AF\QRGLLR GT\YNK\Y\NV\KKG\SD\LG\GFTMV \L\AC\Y\VL\FS\Y\FS\Y\K\HL\K\H\ER\ LR\K\Y\H
23064	53432	A	23198	2	48	PRVRLRC*MVDEYCGCEWGK* LNGGRV\LWM
23065	53433	A	23199	123	693	QACIMREYKL\VV\LG\SG\VG\K\ S\ALT\V\Q\VF\Q\G\I\VE\K\Y\DP\T\I\ED\ S\Y\RK\Q\VE\V\DA\Q\Q\CM\LE\I\LD\T\AG\ TE\Q\FT\A\MR\DL\Y\K\N\G\Q\G\F\A\LV\ Y\SI\TA\Q\ST\T\N\DL\Q\DL\RE\Q\I\LR\ V\K\T\DD\VP\MI\LV\G\N\K\CD\LE\DE\ER\ V\VG\K\E\Q\G\Q\N\L\A\R\Q\W\N\N\CA\FL\ E\SS\A\K\SK\I\Y\Y\N\E\I\Y\D\L\VR\Q\I\N\R\ K\T\P\VP\G\K\A\P\Q\K\SP\SC\Q\LL\
23066	53434	A	23200	461	1422	SPHGEPLLQCRREM\W\G\W\SLH\ T\ES\PL\G\Q\W\G\Q\SI\KL\Q\N\DL\
23067	53435	A	23201	232	331	TPL*KWL\RG\VM\A\VT\VV\T\P\Q\T\G\ I\I\A\IP\DP\H\EW\G\ST\G\Y\PR\L\PA\

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23068	53436	A	23202	5	1223	GLDSGPESGLRAQPGAGKRM MSVLRRMMRVSNRSLAFIFFF SLSSSCLYFIYVAPGIANTYLFM VQARGIMLRENVKTIGHMIRLY TNKNSTLNGTDYPEGNNSSDYL VQTTTYLPENFTYSPYLPCKPEKL PYMRGFLNVNVSEVSFDEIHQL FSKDLDIEPGGHWRPKDCKPR WKVAVLIPFRNRHEHLPPIFLHL IPMLQKQRLEFAFYVVEQTGTQ PFNRAMLFNVGFKEAMKDSV WDCVIFHDVDHLPENDRNYYG CGEMPRHFAAKLDKYMYILPY KEFFGGVSGLTVEQFRKINGFP NAFWG\WGGEDDDLWNRV\H YAGY\NV\TRPEGDLGKYKSIPH HHRGEVQFLGRYKLLRYSKER QYIDGLNNLIYRPKILVDRLYT NISVNLMPPELAPIEDY
23069	53437	A	23203	78	495	CTFEKAPPQLGRGRMVPACK GGEKKTGRAINEVVTREYTINI HKRIHGVGFKKRAPWALKEIR KFAMKEMGTPDVRIDTRLNKA VWAKGIRNVLYRIHVRLSRKR NEDEDSPNKLYTLVTYVTVTTF KNLQTVNVDEN
23070	53438	A	23204	138	360	KNQKRQLSGGHCADQTSLV RLAPLF\PTTMSDKPDMAEIEKF DKSKLKKTETQEKNPLPSKETT EQEKQAGKS
23071	53439	A	23205	145	728	KRQPTSAMKDPSRSSTPSIINE DVIINGHSHEDDNPFA\EYMWD GKMEGRNFNR\QIGRRELWGR KD\FLNRCFPKE\MLGEEGKEG ALNWVLFPSFEILPHQTMGPNP RTSFNDPCLSSDGSFSWEDLVV KS\NLNPNAKEFVPGGEVRKYL SRRGPLLVDVAQFPHCEGSIRR LNCKSSLGHCVTLYAIAQSFC
23072	53440	A	23206	530	707	
23073	53441	A	23207	1	515	MDFSKVPPHAAFRQQPPALT WGLAKGSGRGAGEGGERPDRR R/PAARTGTPAWRPAGRRRLPP RSPPPAVPVPRPALPHPVRPGKE TGKTRRRRHYSQGRPLRGAAA AAAAAAVAQTASPSWAEGGRS GAGGSAESPAFSSPALPCPEGLL CPSAVPVPSKQSVSEVLAIF
23074	53442	A	23208	3	713	
23075	53443	A	23209	1	704	

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23076	53444	A	23210	2	1631	GLP RRP TRP PTR SGV SPP WPG PH SGVL FPL LLL HCT GSL SQAV LTQ PSSL SAS PG \ ASV KLT CTL RSD IN VGSP FI YW Y QQK PG SPP QF L R YKSD SDN QQG SGV PSR FSG SKD ASAN A GILL ISGL QSE VR DD YY CQ A WDS STAH SDT GRC GIV GRP PVR QCW PL LLL GLA MVA H GLL RPM VAP QSG DPD PG A SVG SS RS SLR SLW G R L L L QP SP QRA D PRC WPR GFW SEP QSL CY VFG TGT K VTV LG QPK ANPT VTL FPP SSE EL QANK A TLV CLIS DF Y PG A VTVA W KAD GSP V KAG VET T KPS KQS NN KYA A S S YL S L TPE QW KSH R SY S CQL QW GL GLG ASQ G G FLY EP VS QCV V FGG G T KLT VLG QP K A A P S V TL FPP SSE EL QANK A T LV CLIS DF Y PG A VTVA W KAD S S P V KAG VET T T P S K Q S NN KYA A S S YL S L TPE QW KSH R SY S C Q K P N HASH GT S R M P S V A P V S G L K S C W S G T G D R S A L G Q M P G P C H G I P D P M Q Q A S D S G Q P K A A P L G S L C S K P S S E E L S G Q Q G P H W C V S
23077	53445	A	23211	1	959	V F L L L Y L V A M P D P A K S A P A K K G S K K A V T K A Q K K D G K K R K R S R K E S Y S V V Y K V L K Q V H P D T G I S S \ K A M G I M N S F V N D I F E R \ A G E A S R L A H Y N K R S T I T S R E I Q T A V R L L P G E L A K H A V F I E N L L N Y R K Y L V K S S E K D R N Y P C P L P G L K S K V D I C T P Y C L L L P Q P R H Y P G K D T K E E T E D F P N S P P P I N R E E D K R Y T T V M G P C L R Q A A L E G E L L A C P V M E D Q Q A N W V H E P I T F N T F K E I R K S I R E N G P A S P F T R G L I E V I A D S S D L V A S T Q K L T Q P K E T P S A P Y N D I S D L T N Q D S W F I G F P P I W N A G E T D L S N N K T T
23078	53446	A	23212	3	463	
23079	53447	A	23213	74	464	
23080	53448	A	23214	41	490	
23081	53449	A	23215	2	369	P D P A A N A P A A A K P A A A K A L P V F L L L S G G A G P A H P M R A P G C * G E L G Y T E Q L F Q F L Q A T A Q E E G I F E Y T D P K L A I S A V W T F R D L G V L Q Q T P S P A G P R L H L S P T F A S L D N Q E K L E Q F I R Q F I C S
23082	53450	A	23216	124	301	

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23083	53451	A	23217	3	2426	PGVLSTATFRESGLSPCSKLKHP GPRGRLQYSPPPTAGQGRLENG AGHPQSTGPVATLSVAEYGTQ GGASGPARIPIGSRGCLLAGRA EASLWSSGFGMKLEAVTPFLG KYRPFVGRCCQTCTPKSWESLF HRSITDLGFCNVILVKEENTRLF SWALLRVLKLLFLNVQLHKGQ MKMVQKAAQQVGQVGTSLWL SPEQGLPLVLLSTHKTLTDGILL PFMLLSQGLGVLRVAWDSRAC SPALRALLRKLGGLFLPPEASLS LDSSEGLLARAVVQAVIEQLLV SGQPLLIFLEPPGALGPRLSAL GQAWVGTVVQAVQVGIVPDAL LVPVAVTYDLVVDAPCDIDHAS APLGLWTGALAVRSLWSRWG CSHRICSRVHLAQPFSLQEYIVS ARSCWGGRQTLQQLQPIVLGQ CTAVPDTEKEQEWTPTGPLLA LKEEDQLLVRRLSCHVLSASVG SSAVMSTAIMATLLLKHKQKG VFLSQLLGEFSWLTEEILVRGFD VGFSQQLRSLLQHSLSSLRAHV ALLRIRQGDLLVVPQPGPGLTH LAQLSAELLPVFLSEAVGACAV RGLLAGRVPQQGPWELQGILL SQNELYRQILLMHLLPQDLLL LKPCQSSYCYCQEVLDRLIQCG LLVAEETPGSRPACDTGRQRQLS RKLLWKPSGDFTSDSDDFGE ADGRYFRLSQSQSHCPDFFLFLC
23084	53452	A	23218	169	955	ASSQLPCMSAQCCATWAPLKM RWLCSTAWSTSSLSPPSWSSL QASQPSCCHATSLAPPAGQCL ARAWPVLSFLCTCALGLLASIC MTFATQGKALLAACTFGSELL ALAPYCPFDPTRIYSSSLCLWGI ALRCSAWAENVFAVRCAQLTH QLELRP\WWGKKQPTHMMRE NPELVEGRDLSCT\SEPLTL CRDDVLPRP\DGQLRTLQATLL CDPGPGFLGAGLRLKLWTLGG P\SGAFQPSSPTTPAHLHLKIETL F
23085	53453	A	23219	1	344	

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23086	53454	A	23220	214	1355	FCSSWLRSLADSSLWKMFLVG LTGGIASGKSSVIQVFQQLGCA VIDVDVTARHVVQPGYPAHRRI VEVFGTEVLLENGDINRKVLGD LIFNQPDRRES\NAITHPEIRKE MMKETFKYFLRGYRYVLDIPL LFETKKLLKYMKHTVVVYCDR DTQLARLMRRNSLNRKDAEAR INAQLSLTDKARMARHVLDNS GEWSVTKRQVILLHTELERSLE YLPLRFGVLTGLAAIASLLYLLT HYLLPYAYTASAIPPSGAASRG PGARCSAIRKRAPARPTSAVSPP GAPRSPARGLRAIDRAAGTRNL NATLPPP GPP APPSPPSPPSSITL HVFHQLQPDITRGREGTDFQWE KFPGRVLVADSRRALRCLAPAP TWLV
23087	53455	A	23221	2	1231	TPLFLRKGTADGSARTIVIHLG FTKGKQRCVETQAAAAGDVG RTAAGGRGVKGESGVISSDRPG LPVGQSQPEGGEQEATDTVS VH ATTSQA WPGGADSKE LSSKAE ERETGKDQQTELPLCLPLRDFP DSAPVMSSDSGHATESLHASS DSKPPMPTPNEGPGSTVGHAGP PRTVKADLC TEPQLALRGLQVS LPRLHLVGVIYAEHQASGLEGC GHAGSCSPDGSPRAPGATLCLS KPLSFRTKRC L PCWL P ASAPVGI PGAPVHIPGAPVCIPGAPACISN APVHIPGAPVGIPGAPVCIPGAA VCVPNTPMCIPSAPMCIPNTPVC IPNTPVCIPNTPVCIPGA A VCI LG A/PRAHPWCSSCVHPGAPECYL GCGLTQADRLEPAVLDAGLQE PLFALCGQALPS
23088	53456	A	23222	2	408	
23089	53457	A	23223	62	251	

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23090	53458	A	23224	2111	3003	TQKAICMCLGLCKKIHHLLSQ CLISQIKMIMGAGWQ/SSGFTDE KETSKIKADPEKLKKLQESLLE EDSEEEGDLCRICQIAGGSPSNP LLEPCGCVGSLQFVHQECLKK WLKVKITSGADLGAVKTCEMC KQGLLVDLGDFNMIEFYQKHQ QSQIKTEATVVEHKDIYNVTET QLVPEARSVLLVGAGQMLLTG ANRALNSDYSSMRPKVKAQNE LMNSGLYLVLLLHYEQRFAEL MRLNHNQVERERVRVTRVLGG LSPNVSCGVVSGVGSFQWVRG LTDLNEASDLHAQIPAE
23091	53459	A	23225	1	594	MIAAFNPGKVDTVTNGPFIDL NYMVYMFHYDPTHGKFHDVP MFVGMGNHKHENKLTVISNAS CTTNCLDPLAKVIHDNFGIREG LMTTVHSIIATQKTVDGPSRKL WHDSHGAFQNTIPASTGAAKI KKVVRAQ/SQGPLKGILGYTEH QVVPLEFKSNTRPSTFEAGAGI AVNDHFVKLISWYGNEFAYSN KVIKPM
23092	53460	A	23226	3	232	
23093	53461	A	23227	1078	2221	QQTLQPAALPCPFPPPTHPPEVL PTAMNTTSSAAPP SLGVEFISLL AIIILSVALAVGLPGNSFVVWSI LKRMQKRSVTALMVNLALAD LA VLLTAPFFLHFLAQGTWSFG LAGCRLCHYVCGVSMYASVLL ITAMSLDRSLAVARPVFSQKLR TKAMARRVLAGIWVLSFLAT PVLAYRTVVPWKTNMSLCFPR YPSEGHR AFLIFEAVTGFLLPF LAVVASYSDIGRRLQARRFRRS RRTGRLVVLII LTFAAFWLPYH VVNLAEAGRALAGQAAGLGLV GKRLSLARNVLIALAFLSSVNP VLYACAGGG\LLRSAGVGFF\A KLEG\TGSEASSTP\RGGSLGQ TVKSGPAALEPGPSESLTASSP LKL\NELN
23094	53462	A	23228	6125	6319	ASVVPVTSALAMCSPKSGIGDG FAVLRVEDVAQK***KAALGV ASSPAWQQTREREHVQGNPL
23095	53463	A	23229	1	1347	

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23096	53464	A	23230	1	1124	MRECISIHVGQAGVQIGNACWE LYCLEHGIQPDGQMPSDKTIGG GDDSFNTFFSETGAGKHVPRAV FVDLEPTVVDEVRTGTYRQLFH PEQLITGKEDAASNYARGHYTI GKEIVDLVLDLDRIRKL\FGGGTGS GFAASLLMERLSVDYSKKSKLEF AIYV\APQVSTAVVEPYNSILTT HTTLEHSDCAFMDNEAIYDIC RRNLDIERPTYTNLNRLIGQIVS SITASLRFDGALNVDLTEFQTN LVPYPRIHFPLATYAPVISAeka YHEQLSVAEITNACFEPANQMV KCDPRHGKYMACCMLY\RGDV \VPKDVAIAITIKTKRTIQFVD WCPTGFKV*LGDMEA\FQQAAD AQNNTGLEGP\HPLGRLSLFHGL
23097	53465	A	23231	1	2918	MDVYCAHESLRHTKSPEATGQ TSGQRPEALQAFWPAFGSSPVT GSSPVTEVTTKGRWSSSRQVL WDRIPLAKSRPAISNRQSQRTNI PWWESCPPILNLEREQPPRFAQP GTYASRWKALEEMEKQQREQ VDRNIREAKEKLEAEMEAARH EHQLMLMRQDPGLALVSCMQ QQQSMSRSPKKVFKHL\YELNL TKLQSLGSRSLRWKDSPFWGE EAGGKRPPVSLALHRSPSLLL LFVPKHPSKGRPDCTVQRS
23098	53466	A	23232	1	158	
23099	53467	A	23233	1	414	LGGLKGTWGETKPAMAAAEEE DGGPEGPNRERGGAGATKTL YTGNHLFSPQWLETRPERQEC VCKAGISREKVVGKSLTFSL HFLRLKTPQICRLPV*LFLPP*GF QPGDGTGGFHFSGVGAFPPFGF FNSPSY
23100	53468	A	23234	1	663	
23101	53469	A	23235	2	667	SWAGGGFWFVGACCVFGGTE GYVGRNKTGHGSSRRRRSGAP NVPNRERGGAGRPKTPFECNIC LETARELVSLVLANLYFWTISH QV\LETRPERQECPVCKAGISR EKVV\LYGRGSQEAPRIPRLKT PPPPPRGQR\PAPE\SRGGF\QPGF DTGGFHF\SFVGVGAFPPFGFTTV F\NAHEPFRRTGVDLG\QGHP A\SSW\QD\SLLFLAIFFFF\WLL
23102	53470	A	23236	363	476	
23103	53471	B	23237	224	364	

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23104	53472	A	23238	1	1324	MRQRRAELLSKDKRVRTDGNN KCSPSAIGKRKERGTNDWIEGD NNQESQGLNCSDTLNRLGPN TRGFLYAGLSGLDPDPSLPTPD MSSEVLEDNLDTLSLYSGKDSD SVKLLEYYADSESQASLQGRSR CWQHPHPAPLSYPPAASGSQLS LQGKFPSAKPPLLGGYTCTAQR TQWALTKRSLRATRESVSRQQ GVYGLVGRKRTRHHRGVVLGLL GIPSARPERPGTGEAGPTRLPG AAVARRRPARPVGRGLGDPAP TAAQTSGPASLPPPPPPRSYGD HQNGYPDPDPAPSASPDLPAA GDTRGSGGRRKKRRTGTARLN TPGRKA\PKQKAAAGRKGRAH QPAPRTPEPQRRRPIRPPNQTDR LRHPHRRAGRGPPPGAGGTA NPSTGANGGAATARTRAGART RGARGASERAGRHSRPASWL TATPPPGT
23105	53473	A	23239	1	433	PTRPSSPEETDGPWDPEGHPGG PLTDPPNAPVLALPPAIPGLSLS MADGSSDAAREPRPAPAPIRR SSNYRAYATELQDLCRQLHAR VDKVDEERYDIEAK\VTKNITEI ADLTQKIFDLRGKFKRPTLRRV RISADAMMQALL
23106	53474	A	23240	2	409	
23107	53475	A	23241	3	490	SSPEETVGPWDPEGHPGGPLTD PPNAPVLALPPAIPGLSLIMADG SSDAVRAAG*GVAGTPRARAR EPRPAPAPIRRSSNYRAYATEP HAKKSKISASRKQLQLKTLQQ IAKQELEREAEERRGEKGRALS TRCQPLELAGLGFAELQDLCRQ LHARVDK
23108	53476	A	23242	149	846	VSAWRNGSSDAAREPRPAPAPI RRSSNYRAYATEPHAKKSKI S\ASRKQLQLKTLQQIAKQELE REAEERRGREGARSLAPRC\QP LELAG\LGFAADLPGLCCRQFHA RV\DKVDEERYDIEAKVSKNITE IANLT\QKIFDLRSKFKRPTL\RR RISADAMMQALLGARAKESL DLRAHLKQVKKEDPEKENREV GDWRKNIDALSGMEGRMKKW RELSLPAYCPCPEEGH
23109	53477	A	23243	1	487	
23110	53478	A	23244	80	511	

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23111	53479	A	23245	427	1417	KTMWKVEFGVRFISITRLLLEHQPKQTMYIPLPK/PPLWPEEPKTEAPKQTPRAPPKPKTSPPRIPQTQPEETDQSTQEPFTTKIPRTTELAKTTQGLEMLSCLIHNPKMHKDSTNEQIAASLQACYYEQLLMYIRVTDVDSVGPGNGKEAVTAHQAPTLFWLNHKAQLAKDWAQKDVNITPTFATSKKENKPPNNLQICNVSKIHQRRAKVAGKPEIKDKHIQKEMPLDAIEASKINLVKIFNEFLKAWKCRSLSFYRIPENQGHKGFSFYLLVGSSRTSWLLTEKIGSSKRVLRMPPMDILKTTQILLSFLWSINLTPRGKNNHLVAPAH
23112	53480	A	23246	3	1011	
23113	53481	A	23247	2	334	PIQSFFVLKKPPLRKGVYLSSKSLSRWFFKVQAN*RSQPQKAFSRLSCHC
23114	53482	A	23248	1	642	
23115	53483	A	23249	854	1150	KEDTNWKNIPCSWLGRINIVKMAIMPKVNL*IQCCHPHQATNDSSSQNWKKTLKFIWEPKKEPALPSQS*AKRAKLGGITLPDFQTITYKATVTKTA
23116	53484	A	23250	1754	2393	PSNRREFGESWPETQAPGALRPLLPAPGTPRARERPAGWPAPRMDEVYIIPSFYREESDLERGYTVFKIEVLMNNGRKFVEKRYSEFHALKKLLKKCIKTPEIPSKHVRNWVPKVLEQRRQGLETYLQ\AVILENEELPKLFLDFLNVRLHPLSPKAESCGSFDETESEESSKLSHQPVLLFLRDPYVLPAASDFPNVVIEGVLHGIFYPHLQPR
23117	53485	A	23251	1	265	AGNRLRFQLELEFVQCLANPNYLN/WYPQCLHMLELLQYEHFRKELVNAQCAKFIDEQQILHWQHYSRKRMRLQQAL\AKQQQQNNTSGK
23118	53486	A	23252	1	987	
23119	53487	A	23253	1	491	RGFRNFARVSGLLLQAGGVLVSSFVMAAAVAMETDDAGNRLRFQLELEFVQCYANHNTLIFLQR\GYF\KDKAFVNYLKYLW\KDPEYAKYLKYPQCLHMLGAPNMEHFRKEAGWNAQC\AKF\IGWNRQVSTLGKHYS\RKRM\RLOQALAEQQQQNNTSGK

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23120	53488	A	23254	73	355	HEGQVHVLLASAHVDVAIVLG AGSMVEGEARPEQAAQHHQGI APLHLDAPGPSWTQSRSPRNRA NQNHTCSEAT*SHPEQLPQTLW ECHA PRSP
23121	53489	B	23255	1	441	
23122	53490	A	23256	528	698	IGQRFLHGPV/H/HHS HYDN/PH HSLHHHRCLHHCHLHHHRHHL HHHPLHCYHHHPGQNG
23123	53491	A	23257	1	403	
23124	53492	A	23258	509	4547	LYLTTSRREEHLKSLVVETQDL ASPVLRVSICTKVEEAFRQAH VIVVLDSTNKEVFTLEDCLRS RVPLCRLYGYLIEKNAHESVRV IVGGRTFVNKLTVLLMRYAPRI AHNIIAVALGVEGEAKAILARK LKTAPS YIKDVIWGNISGN NYV DLRKTRVYRYESAIWGPLHYSR PVNLNIFDSEWVKREFVAILKN LTTTGRQFGGILAHSIATTLY WYHGSPGEIVSLGILSEGQFGI PKGIVFSMPV
23125	53493	A	23259	56	290	
23126	53494	A	23260	468	993	VLLACFWPGSDFWPRSRRKTY GTAPQSCYSFYVALDCGGVSRL VIFVSWRNPQVAPTSAHQNRPS RNPVSRPPNTQRVARRKHYAL ADGYTERRWTNAPCRAESSFPP NCPSA APIPD SYDK*PSRATLFT SHLTVEAFPVWSYLYPGETPRL HPRAHTRTVPAIRY PDRQTPN GLRGANTMHSQMDTLNGDGR THLAGQRARSPTARPQRQYRI HTTSDLPGLVRKYASGCCRIW YCCA WIERALSLQVGGGVFGD PLSEGQAECDHGST
23127	53495	A	23261	1	3114	
23128	53496	A	23262	3	401	TSSLSLSGKSGRYIVFLRRSVGI QSPSAVATVRLLLAGSDRRFAA GSAGCAVLSRAERS*EPGCCYR IRRSAFRLRAGSIGNRDKPVAW PDTGSGDNT EVYFRAHQAGILP DTVLAGPAQRVA VSGGTPVDW
23129	53497	A	23263	2874	3062	

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23130	53498	A	23264	2766	3323	MPDLVEGREKSDKGAQPQPRT QSRSARTNGSGVRILHSLWRIIG IPLLGYSLVCSRVLACFWPG SDFWPRSRRKTYGTAPQSCYSF YVALDCGGVSRLVIFVSWRNP QVAPTSAHQNRPSRNPVSRRPN TQRVARRKHYALADGYTERR WTDAPCRAESSFPPNCPL*RQY RIHIVDASVCGP
23131	53499	A	23265	968	1440	
23132	53500	A	23266	3	640	LSVVRSRIHMGVGVGVCPR YRNQDDHELQITHGNKILCGIV CDKGAQPQPRTQSRSARTNGSG VRILHSLWRIIGIPLLGYSLVCS RVLLACFWPGSDFWPRSRRKT YGTVPQSCYSFYVALDCGGVS RLVIFVSWRNPQVAPTSAHQNR PRRNPSRPPNTQRVARRKHYA P\ADGYTERRWTIAPCRAESSFP PNCPSAAPIPDSDYDK
23133	53501	A	23267	1	3140	MVYKMRYRSQHPYSIKEKQMK SEVLSVKEKIGYGMGDAASHII FDNVMLYMMFFYTDIFGIPAGF VGMFLVARALDAISDPCMGL LADRTRSRWGKFRPWVLF GAL PFGIVCVLAYSTPDLSMNGKMI YAAITYTLLTLLYTVVNIPYCA LGGVITNDPTQRISLQSWRFVL ATAGGMLSTVLMMPVLNLIGG DNKPLGFQGDLSPMFSTPEEIA RPGPYENDVHVGASSLAAGH KTLIPELVRSAEQHMGTR
23134	53502	A	23268	750	1340	ILHAPAPPFSASASHEQPEWSD KGAQPQPRTQSRSARTNGSGVR ILHSLWRIIGIPLLGYSLVCSR LLACFWPGSDFWPRSRRKT TAPQSCYSFYVALDCGGVSRLV IFVSWRNPQVAPTSAHQNRPSR NPVSRPPNTQRVARRKHYALA DGYTERRWTNAPCRAESSFP CPFAAPIPDSDYDK*PFRIVS
23135	53503	A	23269	93	699	RASVQQKKLSTDDKGAQPQPR TQSRSARTNGSGVRILHSLWRII GIPLLGYSLVCSRVLACFWP GSDFWPRSRRKTYGTAPQSCYS FYVALDCGGVS\RSYLYPGET PRVAPTSAHQNRPSRKG\TRPP NTQRVARRKHYALADGYTER\ SATNAPCRAESSFPPELPVPQVP NTGFIQVTFRDCFVNTPQAAA SGFW

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23136	53504	A	23270	1000	1530	QRYSNDPNDKGAQPPQRTQSR SARTNGSGVRLHSLWRIIGIPL LLGYSLVCSRVLACFWPGSDF WPRSRRKTYGTAPQSCYSFYV ALDCGGVSRLVIFVSWRNPQV APTSAHQNRPSPNPVSRPPNTQ RVARRKHYALADGYTERRWT NAPCRA/VEPFPPNCPWEAQYRI
23137	53505	A	23271	242	711	LKQKRDKEDRSSRVSAVLLIK/ HRRPLPLPIGLKACHCSCCTAKC LGGCESPRKGGQLLIFEHVKI DLEIFTKSLWLTRQLIVKKETEK AVKHASNICIMRTGLTFQSHKIE DGLFGLLVIATEAEWSYVCQST NPVDVYPLTAVPACCIISASDVP
23138	53506	A	23272	2	459	CVNSQIGRGHKITTYPFSPRKSG RKGMAQSQGWVKRYIKAFCK GFFVAVPVAVTFLDRVACVAR VEGASMQPSLNPGGSQSSDVVL LNHWKVRNFEVHRGDIVSLVS AKNPEQKIIKRVIALEGDIVRFP *DFCMPMPHISCGPQSAGRNW
23139	53507	A	23273	1	474	
23140	53508	A	23274	358	948	PLTPFSPRKSGRKGMQAQSQGW VKRYIKAFCKGFFVAVPVAVTL LDRVACVARVEGASMQPSLNP GGEPV/ASDVVLLNHWKVTEF/ SEVHRGDIVFIG\APKNPEQKIIK RVICSLKGDFQNHRTQKP\DVK VPRGSHLGLEGDHSDWDTVFDS NSFGPVSLGLLHAHATHILWPP ERWQKLESVLPPERLPGTERRG MTA
23141	53509	A	23275	90	664	NKYRLQPSPPRLALWDRASDPP APPEDPETAPAMEEDQELEKSI SGLKT\SMVEG\ERKTTLELV\Q AAG\TDRP\CVTFVLHEEDHTLG \NFLRY\IMMKNP/EKVEFCGYT YG/HPSFQRAKLNLPHSRFRGYP FPAVEPISREALNELM\NVCQP CAFTSFRASIKDYKESKSKQEM ESTFLVLLWQFYKGGTVL
23142	53510	C	23276	108	320	
23143	53511	B	23277	446	625	
23144	53512	A	23278	1	3042	
23145	53513	A	23279	1	3156	

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23146	53514	A	23280	518	2076	QQRR*MCQNLMTHQNQRSGR SQNDF*RRRKNIERSAVYR*R QLYIRRQPYAERPS\HVEDKGH KYLVFEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVDEIER ANVFKMNGKWYLFTDSRGSK MTIDGINSNDIYMLGYVNSLT GPKPLNKTGLVLQMGLDPND VTFTYSHFAVPQAKGNVVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQQQLTW LQVAKRAGLGGGQSGRTVLR RVRIEIASTHALAVECVSRV WKVPLPSRQKYAKHASQLVS NQKSEEEYMKTFNISQQDLEL VEVATEKITMLYEDNKHHVGA AIRTKTGEIISAVHIEAYIGRVTV CAEAIAIGSAVSNGQKDFDTIV AVRHPYSDEVDRSIRVIPTYGT DEWEQWWNAFNEENLFCSEE MPSSDDEATADSQHSTPPKKR KYIYVLVIAITMVMRFWQYING
23147	53515	A	23281	299	457	
23148	53516	A	23282	584	1185	QQRR*MCQNLMTHQNQRSGR SQNDF*RRRKNIERSAVYR*R QLYIRRQPYAERPS\HVEDKGH KYLVFEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTSEKSNEAADHFKHVPQAKG NNVVITSYMTNRGFFEDKKATF APSFLMNIKGNKTSVVKNSILE QGQLTVN
23149	53517	A	23283	1	3618	
23150	53518	A	23284	191	819	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNSMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV

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23151	53519	A	23285	2	2556	WRKIYQAN/GKTKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSTIIMGDFN TPLSTLDRSMRQKVNKNTQEL NSALHQADLIDIYRTLHPKSTEC TFFSAPHHMYSKIDHIVGCKAL LSKFKRTEIITNCLSDHSAIKLEL RIKKLTQNCSTTWKLNNNNND YVVHNEMKAEIKMFFETNEK DTTYQNLWDTFKAVCRGKFIA LNAHKRKQERSKIDTSQLKE LEKQEQTSHSKASRRQEITKVRA ELKEIETQKTLQKINEFRSWFFE RINTIDRPLARLIKKKREKNQID AIKNDKGDIITDPTEQTIREY YKHLYANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPITGSGI VAJINSLPTKKSPGPDGFTAIFY QRYKEELVPFLLKLFQSIEEEGI LPNSFYEASIIIPKLGRDIAKKE NFRPISLMNIDAKILNKLAHRI QQHIKKLIHDQVGFIPGMQG WFDIRKSINVIQHINRTKDKNH MIIISDAEKAFDKIQQPFMLKTL NKLVLEVLVRAIRQEKEIKCQL GKEEVKLSLFADDMIVYVENPI VSAQNLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKSIIKYLGIQLTRHVKD LFKDNYKPALNEIKEDTNWK NIPCSWIGRINIVKELEKTLNFI
23152	53520	A	23286	1	3087	
23153	53521	A	23287	1	741	MLGKKKPVCVEVGGDSGVPKKE FQEGRQVLFKLWRGQANKVG DNSIDSWKNAGRVKFKSDKFD ANDPILKDQTQEWSGSATFTSD GKIRLFYTDYSGKHYGKQLTT AQVKVSKS/V*HTQNQRSGRSQ NDF*RRRKNIS*RSAVYR*RQL YIRRQPYAERPS\HVEDKGHKY LVFEANTGTENGYQGEESLFNK AYYGGGTNFFRKESQKLQQSA KKRDAELANGALGIIELNNDT LKKVVKPLITSN

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23154	53522	A	23288	849	1688	QQRR*MCQNLMTHQQNQPSGR SQNDF*RRRKNSERSAVYR*R QLYIRRQPYAERPS\HVEDKGH KYLVFEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGGLDPND VTFTYSHFAVPQAKGNVVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEPGQLAV
23155	53523	A	23289	1	3171	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSQLQRDLDSHTLI MGDFNTPPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRJKNLTSRSTTWKLN NLLNDYWVHNEMKTEIKMFF ETNENKDPTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLKELEKQEQRHSKPSRRQE ITKMRAELKEIETQ
23156	53524	A	23290	1	3255	
23157	53525	A	23291	1	3924	
23158	53526	A	23292	1	3139	
23159	53527	A	23293	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRINKNLTSRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDPTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLSQL KELEKQEQTSHSKASRRQEITKIR AELKEIETQ
23160	53528	B	23294	1	3127	
23161	53529	A	23295	1	3325	
23162	53530	A	23296	1	3145	

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23163	53531	A	23297	191	819	VNVTSFGSRPICSTSPVLFSGL*GPVKEFDT*PSM*ISFELIPSIVIFEPRESVNKYHLPFILKTFARSISSVTVFEVISGFITFFNV*SLFNSMI PRAPFANSASRFLALC*SFWLSLRKKFVPPP*YALLNKDSSPW/SSVFCSRVGFEYKVFMAFVFNVVRVSQRMVVAGCIIAFIDKLLNVLICFSVSVKNRFVIFHSVDFECV
23164	53532	A	23298	1	3352	
23165	53533	A	23299	1841	2679	QQRR*MCQNLMT\QNQRSGRSQNDF*RRRKNIERSAVYR*RQLYIRRQPYAERPS\HVEDKGH KYLVFEANTGTENGYQGEESLFNKAYGGGTNFRKESQKLQQSAKKRDAELANGALGIELNNDYTLKKVMKPLITSNTVTDEIERANVFKMNGKWYLFTDSRGSKMTIDGINSNDIYMLGYVSNSLTPYKPLNKTGLVLQMGGLDPNDVTFTYSHFAVPQAKGNNVVITSYMTNRGFFEDKKATFAPSFLMNIKGKNTSVVKNSILEQQQLTV
23166	53534	A	23300	1207	1533	YVHCKPSGWTVRTFDKPRKRFIAFFIAGILFRAIKNHFLPRETLQCLPYILTGFRRGQSEYFSIFSNMDLADTVMFL*GAIRFSDLVNEQIQHTFLIPGETICRLSEVV
23167	53535	A	23301	1	3253	MGDFNTPPLSTLDRSTRQKVNDTQELNSALHQGDLID\YRTLHPKSTEYTFFSAPHHTYSKIDHIVGSKALLSKWKRTEIITNYLSDHSAIKLELRINKLTQSRSTTWKLN\NLLNDYWVHNEMKAEIKMFFETNENKD\TTYQNLWDAFKAVCRGKFIALNAHKRKQERSKIDTLSQLKELEKQEQTHSKASRRQEITKIRAELEKIE\TQKTLQKINESR\SWFFERINKIDRPLARLIK\KKREKNQIDTIKNDK
23168	53536	A	23302	1	3095	
23169	53537	A	23303	2	2678	

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23170	53538	A	23304	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVQLSDLQRDLDHTLI MGDFNTPPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCRTEIITNYLSDHS AIKLELRKNTLQSRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDPTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKIEETQ
23171	53539	B	23305	1	2293	
23172	53540	A	23306	1	3810	
23173	53541	A	23307	255	1215	CVGQLAAAKR*RNSS*IQRLSR CVCSCGKPERR**HINLHVLSK GRRQLN/QTAGKTRAVSLKTAI SSTPTIERS*KIRRKNGPVLQPLH LTEKSVYSTLTIPTKAINTLYSK PTREQKTDKAKNLYLTKRTT AAARTSSVKKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR/CITSNTVTDEIERANVFKMN GKWLFTDSRGSKMTIDGINSN DINMLGYVSNSLTGPYKPLNKT GLVLQMGGLDPNDVTLTNSHFA VPQAKGNVVITSYMTNRGFF EDKKATFAPSFLMNIKGKNTSV VKNSILEQQQLTVN
23174	53542	A	23308	1	4539	
23175	53543	A	23309	1	3229	
23176	53544	B	23310	1	3552	
23177	53545	A	23311	1	3139	
23178	53546	A	23312	1	3057	
23179	53547	A	23313	1	3215	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDELR EEGFRRSNYSSELREDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELTKARELREECRSLRSR CDQLEERVSAMEDEMNEMKRE GKFREKRIKRNEQSQLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLRDIIQENFPNLARQANVQIQ EIQRTPQRYSRATPRHIIVRFT KVEVKMLRAAREKDRSTRQ KVNKDTQELNSA

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23180	53548	A	23314	1	1921	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSQLQRDLDSTIIM GDFNTPPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHIYYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTN\HSKASRRQEITK IRAELEIETQKTL*KINESRSW FFERINKIDRLLARLIKKKREKN QIDAIKNDKGDITTDPTEIQTTIR EYCKHLYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPIG AEIVAIINSLPTKKSPGPDGFTA KFYQRYKEELVPFLLKLFQSIEK EGILPNSFYEASIIILIPKPGRTT KKENFRPISLMNIDAKILNKKL AKRIQQHKKLIHHHDQVGFI PG MQGWFNIRKSINVIQHINRAKD KNHMIISIDAEEKAFDKIQQPML KTLNKL\GIKYLGIGHLTRDVKDL FKENYKPLLKEIKEDETNWKNI PCSWVGRINIVKMAILPKMCL* RRWTPLCLLAAASLNRE*ERL VQPLLWRQMYCGPRHCRQVPQ HRRLNWSPSLRLS
23181	53549	B	23315	1	2907	
23182	53550	A	23316	584	1278	QQRR*MCQNLMTH\QNQRSGR SQNDF*RRRKNI SERSAVYR*R QLYIRRQPYAERPS\HVEDKGH KYLVFEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVDEIER ANVFKMNGKWLFTDSRGSK MTIDVPQAKGNVVITSYMTN RGFFEDKKATFAPSFLMNIKGN KTSVVKNSILEQGQLTVN
23183	53551	A	23317	1	3345	

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23184	53552	A	23318	2	3366	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDHSHTLJIGDFN TPLSTSRSRTRQKVNKDTQELN SALHQADLIDYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSDHSAIKLELM IKNLTQNHSTIWKLNLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIAL NAHKRK\QER
23185	53553	A	23319	1	2611	MGDFNTPSLTLDRTSRQKANK DTQELNSALHQVLDIDYRTLH PKSTEYTFFSAPHHTYSTTDHIL GSKALLSKCRTEIITNYLSDHS AIKLELRINKNLTQNRSTTWKLN NLLNDYGVHNEMKAEIKMFF ETNENKDYYQNLWDTFKAVC RGKFIALNAHKRQERSKIDTL TSQLKELEKQEQTQHSKASRRQE ITKIRAEKIEETQKTLQK\INES RSWFFERINKIDRPLARLIKRR EKNQIDAIKNDKGDTTDPTEIQ TTIREYYKHYANKLENLEEM DKFLHTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAEDQRYKEELVPFLKLQF SIEKEGILPNSFYEASIILRKPG DTTKKENFRPISLMNTDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIHKHSINVQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLSKLGIDGTYFKIIRAIYD KPTANIIILNGQKLEAFPLKTGTR QGCPLSPLLNFNIVLEVLAIRQ EKEIKLISNSFSKVSGYKINVQKS QAFLYTNNRQTESQIMSQLPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEKTTFKFIWN QKRARITKSILSQKNKAGGITLP DFKLYYYKATVTKTAWYWYQN

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23186	53554	A	23320	1	3099	MGELITPLSTLDRSTRQKVNKDTQELNSALHQGDLIDYRTLHPKSTEYTFFSAPHHTYSKIDHILGSKALLSKCKRTEIITNYLSDHSAIKLELRINKLTQNRSTTWKLNNLLNDYWIHNEMKAEIKMFFETNENKDPTYQNLWDAFKAVCRGKFIALNAHKRKQERSKIDTLTSQLKELEKQEQTSHSKASRRQEITKIRAELEKIEETQKTLQKINESRSWFFERINKIDRPLARLIIKKREKNQIDTIKNDK
23187	53555	A	23321	911	1539	VNVTSFGSRPICSTSPVLFSGL*GPVKEFDT*PSM*ISFELIPSIVIFEPRESVNKYHLPFILKTFARSISSVTVFEVISGFITFFNV*SLFNSMI PRAPFANSASRFLALC*SFWLSLRKKFVPPP*YALLNKDSSPW/SSVFCSRVGFEYKVFMAFVFNVVRVSQRMVVAGCIIAFIDKLLNVLICFSVSVKNRFVIFHSVDfecv
23188	53556	A	23322	191	820	VNVTSFGSRPICSTSPVLFSGL*GPVKEFDT*PSM*ISFELIPSIVIFEPRESVNKYHLPFILKTFARSISSVTVFEVISGFITFFNV*SLFNSMI PRAPFANSASRFLALC*SFWLSLRKKFVPPP*YALLNKDSSPW/SSVFCSRVGFEYKVFMAFVFNVVRVSQRMVVAGCIIAFIDKLLNVLICFSVSVKNRFVIFHSVDfecv
23189	53557	A	23323	965	5050	TWKGTTTSRCKIMPKYRSTRQKVNKDQELNSALHQADLIDYRTLHTKSTEY/TFFSAPHHTYSKIDHIVGSKALLSKCKRTEIITNYLSDHSAIKLELRINKLNQSRSTTWKLNNLLNDYWVHNEMKAEIKMFFETK\ENK\DTTYQNLWDAFKAVCRGKFIALNAHKRKQERSKIDTLTSQLKELEKQEQTSHSKASRRQEITKIRAELEKIEETQKTLQKINESRSWFFERINKIDRPLARLIIKKREENQ
23190	53558	A	23324	1	2787	
23191	53559	A	23325	1	902	
23192	53560	A	23326	1	3640	

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23196	53564	A	23330	3	2372	TTNCLSDHSAIKLELRIKKLTEN HTTTWKLNNLLNDYWDNE MKAЕIKMFFЕINEKK\DTTSQNL WDTFKAVCRGKLIALNAHKRK QERSKIDLTSQLKK\LEKQEQR NSKASRKQEITKIRAEKIEITQ KKTLQKINESRSWFFEKINKIDG PLARLIKKKREKNQVDAIKNDK GDIITDPTEMQTTIREYYKYLY ANKLENLEEMDKFLNTYTLQR LNQEgieslnRPITGSEIEAIINSL PTKKSPGPDGFTAKFYQRYKEE LVVPEPRSESECLSNIREFLRGC GASLRLESIREDRNGRSQKTVH TEGDMNMNKKIVKQATVLTF TTALLAGGA\TQAFAKENNQKA YKETYGVSHITRHDMLQIPKQQ QNEKYQVPQFDQSTIKNIESAK GLDVWDSWPLQNADGTVAEY NGYHVVFALAGSPKDADDSI YMFYQKVGDNSIDSWKNAGR VFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQNVNSKSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDEGRNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLG
23197	53565	A	23331	2	2987	APRFIKQVLSQLQRDLDHSHTIIM GDFNTPPLSTLDRSTRQKVHKDT QEЛNSALHQADLIDIYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEIITNCLSDHSAI KLELRKKLTQNRSTTWKLNNL LLNDYWVHNEMKAEIRMFFET NENKDTTYQNLWDTFKAVCRG KFIALNAHKRKQERSKIDLTS QLKELEKQEQTHSKASRRQEIT KIRAEKIEITQKTL\QKINE\SR SWFF\ERINK
23198	53566	A	23332	339	701	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFIAFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNSMDLADTVMFL*G AIRFSDLVNEQIQHTFLIPGETIC RLSEVV
23199	53567	A	23333	190	502	

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23200	53568	A	23334	4472	8032	KKSGNNRLMRVHGKKRFLWQ KQGVCEVEIQAQRESARDGTD REDAESPHEAVTVPRGTRTEILT LWASRDRPASACGVTVPKGST THPGGMDRVCVGVDATVLHWM KQVQGISNLEVETGPRRRDMD EAGSRHSQQTNIGTENQTPHVL THKWLQLRNSACDKLHKPHSV PGGVAAGDVGGKTISNPVCAY EYQVDGSPHIWEDVNKGVYIEE DRAPLMERSSSPAMEQSWMEN DFDELREEGRRSNYSELRED
23201	53569	A	23335	1	2374	MVISDLVICPPRHPKVLGLQGP PG LDSISDPSAGAGFLDWGEIG MPGPGRAGHQALCKCDCQCLE KTTTKAPGKMPKSTRSGPVRV RLADGPNRCA GRLECGMPDAG EQCVMTTGTSGRHCGLLGTGL WKGYTDLTIIPPGPGTPPQERTC QGDYHSGGTWTHSPLLETRRP GSSSPAIRRLPAQMLLLPARPPH PRSSSPEAMDPPPKAPPFPKAE GPPSTPSSAAGPRPPRLGRHLLI DAN/GVYPYTYTVQLEEEPRGP PQREAPPGEPGPRKGYSCPECA RVFASPLRLQSHRVSHSDLKPF TCGACGKAFKRSSHLSRHRATH RARAGPPHTCPLCPRRFQDAAE LAQHSWGTPRGPLAACNCE VARGRLESPGPERLLHGYGGRE EEGGWGRAAGGLDRVEGFISS KAHYLLIDTQGVPYTVLVTRS HRGSQGPVGLQARKVQLP LKGLRVHVHLQRHSITHSEVPQ DFAGSLDSFQTPGESLRLVFRA LDTTQSSRISKAEPCLKEEPLSL GDLPYMHHTLCFCRKRRASPGP GTLQRGALAWPDWASPRALPV PSLSSTTRSPAAPLFAVPLSGRT TQAMAFDGIIFQGQSQRSAGLT TTSRFLACQRPLRLCAWWASRS PRCTLRRPVGLRPGVHPRPRLV YRDLKPENVMASGQPRDRPQP WFAWPPRPTRFCGGCWTLTPK

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23202	53570	A	23336	853	1602	PGAAWSRPDLRGCCTEPQPALR MLVLASPCPQPLAFSSVETMEG PPRRTCRSPEPGPSSSIGSPQASS PPRPNHYLLIDTQGVVPTVAW LDEESQREPGASGAPGQKKCYS CPVCSRFEYMSYLQRHRSFH SEVKPFE\CDICGK\AFKRSQHL/ SARHHSIHLGGWVGGPTACRFC PRFRDAGELAQHSRVHSGER PVSVSTLPSPLYGAEHTAETHA VEASHEAGLPAGAPGTHRTLQG ALDSCPDTW
23203	53571	A	23337	1	1144	MGHLMIDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVIYRKHFANPLSALFLQQGI ELFAAIAEIHITTVAERNHAITQI RLEAQTIIFDSLKEWHNAIRKSL DYEALQAFERFVGAATDRGFPAL SSEALVRVLVLDANDNSPFVLY PLQNGSAPCTELVPRAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YPLPLPRAAPAAQADSLTVYL VVALASVSSLFLFSVLLFVAVR LCRRSRAAPVGRCSVPECPFPG HLVDVSGTGTLSQSYQYEVCLT GGSGANEFKFLKPVIPNLLSRDS
23204	53572	A	23338	1	1260	MVCYIQENLPFLLKPSVENFYIL ITEGALDREIRAEYNITITVTDL GTPRLKTEHNITVLVSDVNDNA PAFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVTYSLLPP QDPHLPLASLVSINADNGHLFA LRSLDYEALQAFERFVGAATDRG SPALSREALVRVLVLDANDNL\ PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPLPEAAPAQAAEAD LLTVYLVVALASVSSLFLSVL LFVAVRLC\RRSRAASVGRCSM PEGPFPGRLVD\VSGTGTLFQSY QYEVCLTGGSETGEFKFLKPITP HLPPHRGGKEIEENSTLPNSFGF

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23205	53573	A	23339	123	5794	SSSDSGSLKGACTEVKMEPAGE RFPEQRQVLILLLLEVTLAGW EPRRYSVMEETERGSFVANLAN DLGLGVGELAERGARVVSEDN EQGLQLDLQTGQLILNEKLDRE KLCGPTEPICMHFQVLLKKPLE VFRAELLVTIDINDHSPEFPERE MTLKIPESSLGTVFPLKKARD LDVGSNNVQNYNISPNSHFHVS TRTRGDGRKYPELVDTELDRE EQAELRLTLTAVDGGSPRSGT VQILILVLDANDNA
23206	53574	C	23340	20	313	
23207	53575	A	23341	119	247	RSRCISASPRRPASFRKSIPEEED ESLNI*KGQVSILFFYIK
23208	53576	B	23342	55	288	
23209	53577	A	23343	1	3576	MAFLFEFSDLVSLLSIGTMLAY SLVAFSVLVLRYQPDENFSKNE KPKEEVVEMNSVPKAESPACVP EASSTPASLWSPVSTIPTPRWGR IVYGC AFLVVLLSMLCLVLAH WPKRLFSGELIYIAAVLLLVL VGFTFTVWRQPQSNTPLYFKPP HISTSQNLSLPEHPMEYLLRTGI EPDVRGVLTNVNALPAGPPVACS PLVSISAHVYLMQMKTETWA QCGVWMLIALECPNLKLKPP WLHMPLAMTMYA

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23210	53578	A	23344	3	1762	SVRPGPGHVRV\RFFSLSPLPLR PWPLCPAARRTMGSILSRRIAG VEDIDIQANSAYRYPPKGNYF ASHFFMGGEKFDTPHPEGHLFG ENMDLNFLGSRPSQFPYVTPAP HEPVKTLRSLVNIRKDSLRLVR YKDDADSPTEGDKPRVLYSL EFTFDADARVAITIYCQASEEFL NGRAVYSPKSPSLQSETVHYKR GVSQQVSLPSFKIDFSEWKDDE LNFDLDRGVFPVVIQAVVDEG/ DSVVEVTGHAHVLLAGFEKHM DGSFSVKPLKQKQIVDRVSYLL QEIYGIENKNNQETKPSDDENS DNSNECVVCLSDLRDTLILPCR HLCCLCTSCADTLRYQANNCPIC RLPFRALLQIRAVRKPGALSP VSFSPVLAQSLEHDEHSCPFFK SKPHPASLASKKPKRETNSDSV PPGYEPISLLEALNGLRAVSPAI PSAPLYEEITYSGISDGLSQASC PLAAIDHILDSSRQKGRPQSKAP DSTLRSPSSPIHEEDEEKLSEDV DAPPPLGGAEALALRESSSPESFI TEEVDESSSPQQGTRAASIENVL QDSSPEHCGRGPPADIYLPALG
23211	53579	A	23345	35	3134	RPREGPTWPQLPGSSPRRLFPW SPGSSSRGLFPWSPGSSSRGLFP WSPGSSSRGLFPWSPGSSSRGLFP PWSPGSSSRGLFPWSPGSSSRGLFP PWSPGSSSRGLFPWSPGSSSRGLFP GSSRGHPGPPPSSRGSSRGHGP GSSRGHGPSSRGSSRGHGP GALPVVTRVLLPGLFPWSPGSS SRGLFPWSPGSSSRGLFPWSPGSS SRGLFPWSPGSSSRGLFPWSPGSS SRGLFPWSPGSSSRGLFPWSPGSS PPPGALPVVTRVLLPGLFPWSP GSSSR/RTLPVVTRLLLGTLPV VTRVLL
23212	53580	A	23346	3	91	
23213	53581	A	23347	3	174	
23214	53582	A	23348	3	360	
23215	53583	B	23349	158	368	

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23216	53584	A	23350	3786	4928	PPPARTRPCASLTPEKAKWWRS KPGLTRAPARCGLSSPQTGSCS APASAG*VSGNSRSGTRRGLRP TRG*GPGCPSSRARAISPRAS/L RMSQRELGLWDPNNFEFPVAL QEMDTSGVLLPFYDPDSSIVY LCGKVLTAGQGEQGTGWRCG GPGCPAGPLNRLILQGDSSIRYFEI TDEPPFVHYLNTFSSKEPQRGM GFMPKRGGLDVSKEIARFYKLH ERKCEPIIMTVPRKSDLFQDDL YPDTPGPEPALEADEWLSGQD AEPVLISLRDGYVPPKHRELKV TKRNILDVRPPSGPRRSQSASDA PLSVRSALLHSGPIYISPNRPYTT RPLCPPPQQQHTLETLLEEIKAL RERVQAQEQRITALENMLCELV
23217	53585	A	23351	1	1898	MSRKGPRAEVACDCSAPVGPD FALAISELVSPDIFMQSHSENAIS VKEIVTEIESISQGVGQIQLKGDI LPNPCHTPKKNSIHELLERAQT PENKPGHMEQDEDCTAQPEL AKDSGMCNPEGCLTHSSIADL EEGEQLRGNKSSRAQGCTQNS KNDSSVADLAPKGKSDEAPPEH SFVLKEPEMSKGKGKYSGSEA GSLSHSEQNATVPAPRVLFDH LPDPQEGPGPEASNGLKVSQKS EGSQPSSSRSPLEFLKEAGVPNQ TLSSGTPDPYFMAILGPKLN RPHLHPVSHTLDLGNSSPLPQQ FAKCQRGRKGPEGKYPLHYLV WHNRHRELEKEVRAQQTITQ TLSQANPTAITAEEYFNPNFELG NRDMGRPMELTTKTQKFKA WLCEEHPLSLCEQVAPIIDLMA VSNALFAKLRDFITLQIPIFHILN ARITFGNLNGCDEPVPSVRGSPS SETPSPGSDSSVSSSSSTSEAPR ENACPSALPGVASCRCGEISPAL FEAPRGYSMMGGQREAATRDD DDLLQFAIQQSLLEAGSEYDQ VTIWEALTNSKPGTHPM SYE/R SPTGQQGVPAATCSG/RYDEQL RLAMELSAQEQEERRRARQE EEEELERILRLSLTEQ
23218	53586	A	23352	341	711	

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23219	53587	A	23353	57	719	TSIDLMAEIIQERIEDRLPELEQL ERIGLFSHAEIKAIKKASDLEY KIQRRTLFKEDFINYVQRIGYSF KKDEIENSIVHRVQGVFQRASA KWKDDVQLWLSYVAFCKKWA TKTRLSKVFSAMLAHSNKPAL WIMAAKWEMEDRLSSESARQL FL\RALRFHPECPKLYKEYFRM ELMHAGKTGGRRKNLKKPV WMWRILIIKKSLRASWHGSST
23220	53588	A	23354	27	352	TESVVTIMSLNPKSEMTPEE\REEEEFTGPLSVLTQSVKNNT QVLINCRNNKKLLGRVKA FDR HCNMVLE\NVKEMLTEG/DRYI SKMFL\AGDPVIVVLRNPLIAGK
23221	53589	A	23355	32	575	STRLDLPCWDVRSLFNKP\KS EMTP\EEELQKREE\EEFNT\GPTP LCLTQS\VKNNTQSAQSTC\RNN KKLPGAA*RPFDRA SPPCSPPGT CNMVL\ENVK\EMWT*GTQEV GKGKEGSSKP\VNKDRLTSSKM FPGGGGFSSFVVPCGNPFHSAG QIRGPPVLFDKNSHPLVLLKTA CHLVFENY
23222	53590	A	23356	103	713	VTSGCGKKVWLDPNET\NEIA NANFRSADPGR LIKDGLIIRKPV TVHSRARLPEKTPLARCKHG TLGIGKRKG TANA\RMPKEGH GMRRMRILAPAC SRRYRESKKI D\RHMYHSLYLKVKGNVFKNK ADFSWEHIHKAEGRARPRKEAS WLDQAEA\RRSKDQGKHGKRR EERLPGQRKEEINQRLYSKEGR RPRNKNLTL
23223	53591	A	23357	1	2847	
23224	53592	A	23358	1	2823	
23225	53593	A	23359	3	2858	AMFGFQRRLGTPRLQLWLL LEFWEVGSGQLHYSVSEEAKH GTFVGRIAQDLGLELAELVQRL FRVASKTHGDLLEVNLQNGILF VNSRIDREELCGQSAECSIHLEV IVDRPLQVFHVNV EVKDINDNP PVFSLREQKLLIAESKQSDSRFP LEGASDADIEENALLTYRLSKN EYFSLDSPTNGKQIKRLSLILKK SLDREKTPELNLLTATDGGKP ELTGTVRLLVQVLDVNDNDPE FDKSEYKVSLMEN

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23226	53594	A	23360	194	931	NSPVVPVMASGQFVNKLQEEVICPICLDILQKPVТИDCGHNFCPQCITQIGETSCGFFKCPLCKTSVR\RDAIRFNSAVAEIWWEKIQALQASEVQSKRK\EAT\CPHQEMFHYFCEDDGKFLCFVCRESKDHKSHNVSLIEAAQNYQQQISEQIQVLQQKEKETVQVKAQGVHRRDVFTDQVEHEKQRLTEFELLHQVLEEEKNFLSRIYWLGHEGTEAGKHYVEIPLMPTVERSQEA
23227	53595	A	23361	2	381	AINWTSARPVSQCWDP\CPSSQVVVCLAGLPP*RVCQNPVKGP\NCPЛАHTSEPTGHCLL*TRGMCFPSLCGQLCP*SGPPDCPSRALHHTGFCPVALLVAESQVRARACGPEPHRAGRASRWCLHAG
23228	53596	A	23362	213	574	PQTHTGNHSERGRQPITRSPEKPEPCPSKRAPQTQQP\PWAPSLCPPALGPCKGTRRPRVQVHRPTS SQKCPLPAWFHHPLWPTSAARSSSTETPTGQQMRKLRHPAAPR SANALSLGE
23229	53597	A	23363	21	456	
23230	53598	A	23364	2	98	
23231	53599	A	23365	64	241	PWPLASNPRGCLP*PSTLN*PTPSSQPGMSLSDLRHPP*TRETAS GIGGQRPGSDPARTPHFISQTQ
23232	53600	A	23366	209	353	

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23233	53601	A	23367	1766	3292	SSCPTTRVLIMKGAGHPCYLDK PEEWHTGLLDLQGLQLWLMH MQQLMSLAVVSGRLSRGQCGT ERPSRRAAAAAAGQPQRGHF QHIEERLETNVQNCQSPDTLCP THCSPVLNEPCPEVSVAVAPA SPDRMSGSDGGLEEEPELSITLT LRMLMHGKEVGSIIGKKGETV KRIREQSSARITISEGSCPERITI TGSTAATVHFASVSMIAFKLDEDL CAAPANGGNVSRPPVTLRVIP ASQCGSLIGKAGTKIKEIRETTG AQVQVAGDLPNSTERAVTVS GVPDAIILCVRQICAVILEGFSV QQQYGAVTPAEVTKLQLQSSH AVPFATPSVVPGLDPGTQTSSQ EFLVNDVSRGWDGWRLIGCVI GRQQTKINEIRQMSGAHIKIGN Q\AEGAGERHV\TITGSPVSIALA QYLITACLETAKSTSGTPSSAP ADLPAPFSPPLTALPTASPLAC WAHPMPSPSPTLIGFKAHALLG FTTCFPRAAGLGLHRQDGSS
23234	53602	B	23368	1	363	
23235	53603	A	23369	486	947	LDGAGLLAPVKAHLQKKPRL GTRGCAMPRLGSTPFLKGQCL ANSRNTLEAVSLTESSASRVPP APVLGSRRPHSPSPWP/P/YYTP VPPPPRMALVPPNMHGQGTVG LTSVPLACTVAMLGSYKQAGA FGPLANCYGGLGHAQCWGQEF CPTQCP
23236	53604	A	23370	38	680	GSRLRRLQAAAARPALPLPLPP WEWKHLPHVPEAKWWLTTAR HSAAYRADPLRVSSRDKLTEM AASSQGNFEGNFESLDLAEFAK KQPWWRKLFQESGPSAEKYS VATQLFIGGVGTGWCTGFIFQKV GKLAATAVGGFFLLQLANHT GYIKVDWQRVEKDMKKAKEQ LKIRKSNNQIPTEVRSKAEEVVSF VKKNVLVTGGFFGGFLLGMA
23237	53605	C	23371	30	200	
23238	53606	A	23372	14	161	

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23239	53607	A	23373	69	715	APALPGCEHMMMAIRELKVCLL GDTGVGKSSIVWRFVQDHFDH NISPTIG\ASFMTKTVPWENDFT KFLIWDTAGQERFSFIGLPLYYS RLQLAAVYSCYGYLPSRDFIFIT LKE\WV\KRLKELGPE\NIVMAI AGNKCDLSDI\REVPPEGMLKE Y\AESIGAIVVETSAKNAIN\EE LFQGIS\QIPLDPPMKNGKQW DHQKLRSQPMQASRRCC
23240	53608	A	23374	3	293	VTSTMAYRAQQKV\QKVMV QPINLIFRYLQNRSRIQVWL\YEQ VNMRRIEGCIIGFDEYMNVLVDD AEEIHSKTKSRKQLGRIMLKGD NITLLQSVSN
23241	53609	A	23375	3	393	HESCSQRQRAGCALCENSHPW RSRGPGVQKSAEGLWCQPICRT SSSRYL\QNRIAGFQVWL\YEQV NMRIEGCIIGF\DEYVNLVDD AEEIHSKTKSRK\QLGR\IMLK\G DNITLLQTCLPPRMVHGSGEIV
23242	53610	C	23376	129	425	
23243	53611	A	23377	470	635	ENSSSHH\KPFSSGCSIHGFSGH INVTSVTIL*PIKSCHIRCHF*CA QYMVADN
23244	53612	A	23378	71	566	PLFPPCLSPVVAGWARGHMLG QSHQQVAAPLKHRPITPTELCQ KCLSLIKKTKFLNA\ITVSEEVA LKHAEESEKRYKNGQSLGDLD GIPIAEKDNFSTSGIETT\CASNM LKGYIPPYNATVDQKLLDQGA LLMGKTKLNDFAMGSGSTDGV FGPVKNPWSYSK
23245	53613	A	23379	255	1042	ILAARMGKQNSKLRPEVMQDL LESTDFTEHEI\QEWYKGFLRDC PSGHLMSMEFKKIYGNFFPYGD ASKFAEHVF\RTFDANGDG\TID FREFIIALSVTSRGKLEQKLKW AFSMYDLDGNGYISKAEMLEIV QAIYKMVSSVMKMPEDESTPE KRTEKIFRQMDTNRDGTWVPH LALIYRTAEGGFAVQRASVSFY PPPSAGNAMVNEAAVFLEIPLG SSPGQVSAVCHSGRKLSLEEFIR GAKSDPSIVRLLQCDPSSAGQF

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23246	53614	A	23380	1	721	MDGNLRKIRFEKHAITEEFRTT EPLAALRLPSTWIRGVRTSES KREVGKGGQSQQYENRDTEGE GHVMTKARDWSKAAASQRLP ANHLKLRLCIDGFRSHSLPEEGP KKPCQHAAQEEPCTRSGRLPQ AHEGSISDCCTSSEQGMDIGSV EPLGTGYNLLVCHLL/STLEKRSI WAGVSRFSRYHLSRLPLARK\G NPLTPCASQLLPLPSTTQKRQS GHALYSFPYRPQPKNDNLVMP
23247	53615	A	23381	80	562	DRAMWGLWLPPASANPGT GTEAEFEKAEEVRHLKT/RSPS DEEMLFIYGHYKQATVDINTE RPGMLDF\TGKA\KWD\AWNEL KGTSKGDAVEA\YLNQVIEELK KKYGDMERLDLVTVPCVYPKP ETIPFFFSNTVDGWEFRENNPV KPATQRLLTHTGS
23248	53616	A	23382	380	1041	EVТИNSGFIFIMLFMEHPEHYTI MHKWILTWLPTLLYRSCFHIIC LVGTISLACND\MTPEQMATNV NCSSPERHTRSYDYMEGGDIRV RRLFCRTQWYLRIDKRGKVKG TQEMKNNNYIMEIRTVAVGIVA IKGVESEF\YLA MNKEGKL\YA KKECNED\CNFKELILENHYNT YASAKL/WTHNGGEMFVALNQ KGIPVRGKKTKEQKTAHFLP MAIT
23249	53617	A	23383	127	549	SSPKMAATMKAAAEDVNVT EDQ\QKINKFARNTSRITELKEEI EVKK\KQLQNL\EDACDDIMLA DDD\CL\MI PY\QLGDVFISHSQE ETQEMLEEAKKNLQEEIDALE RVESIQRVLADLK VQLYAKF\G SNINLEADES

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23250	53618	A	23384	1	2050	MEYESMVISFDDRVMEKTEYG PIFTVFAMGNRMTFVTEEGIN VFLKSKKVDFELAVQNIVYRTA SIPKNVFLALHEKLYIMLKGKM GTVNLHQFTGQLTEELHEQLEN LGTHGTMDLNNLVRHLLYPVT VNMLFNKSLFSTNKKKIKEFHQ YFQVYDEDFEYGSQQLPECLLRN WSKSKKWFLELFEKNIPDIKAC KSAKDMSMDSDEDPVNLSRS ALVCEMLHVQRSSSDADAIGPH ADHSLSNRWEVILADEHIIAD DMISRYALSEKSQVELSTQVIKS ASSKSVNKSIDTSVFLNWYNP EKKMIRAYATVIDGPEYFWCQF ADTEKLQCLEVEVQTAGEQVA DRRNCPICPYIGDPCIVRYREDG HYYRALITNICEDYLVSVRLVD FGNIEDCVDPKALWAIPSELLS VPMQAFPCCLSGFNISEGLCSQ EGNDYFYEIITEDVLEITILEIRR DVCDIPLAIVDLKSKGKSINEK MEKYSKTGIKSALPYENIDSEIK QTLGSYNLDVGLKKLSNKAQVQ NKIYMEQQTDELAITEKDVNII GTKPSNFRDPKTDNICEGFENP CKDKIDTEELEGVSQKAQESMC TEDMRKSSCVESFDDQRRMSL HLHGADCDPKTQNEMNICEEEF VEYKNRDAISALMP\FSLRKKA VMEASTIMVYQIISQLNYRTPTL
23251	53619	A	23385	3	602	TRPPTRPGLSPDPTSPTEADRGV CERPHRCFLLPQITHPSSGRCL CLLSPTSFDFSLLYESQSDRAIF GVGTEPDQEPPPYYHEQVPVSV YHPTV\SQTWVATQLTEEEQIRI AQIRIGLIQHLPKGVY\DPWRDG SEKKIRECVICMMDFVYGDPIR FLPCVHEWYHLDCIDDWLMRS FTCPSCMEPVDAALLSSYETN
23252	53620	A	23386	33	512	TAARCQGGPTHVPAPVGTACP TRIPGHAPARQCREYYY*YYD F/WKEPRRCHALLPPWAGLEV GMPPSHTQLGMHPAPPPHLEV KAQGPSNRQRTDGCRCWCSGR ASALGGGRQDSRLRERGGGYD H/HCPICRSLKIQLKCHPASGPQ TVGLGRLASVS
23253	53621	A	23387	1	1731	
23254	53622	B	23388	1	706	

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23255	53623	A	23389	1	1986	MGIGEGPTTSEGCRESVEYSHQ KSELPLSGDSQVPGPIGCNCDP QGSVSSQCDAAGQCQCKAQVE GLTCSHCRPHFHLASASNPDGC LPCFCMGITQQCASSAYTRHLIS THFAP/GDFQ/GFA/LVNPQRNS RLTGEFTVEPVPEGAQLSFGNF AQLGHESFYWQLPETYQGDKG EA YFARMRRAHQNRTSLSEEQ LRAAVTAGRIPEPPEGRDWAQR ASQFSLSYEGFSLLPGSLYWQ LPRAFLGDKVAAYGGKRLYTL SYTAGPQGSPLSDPDVQITGNNI MLVASQPALQGPERRSYEIMFR EEFWRRPDGQPATREHLLMAL ADLDELLIRATFSSVPLAASISA VSLEVAQPGPSNRPRALEVEEC RCPPGYIGLSCQDCAPGYTRTG SGLYLGHCELCECNGHSDLCHP ETGACSQCQHNAAGEFCELCA PGYYGDATAAGTPEDCQPCACP LTNPENMFSRTCESLGAGGYRC TACEPGYTQQYCEQCGPGYVG NPSVQGGQCLPESSELHFPVQ PSDAGVYICTCRNLHQSNTSRA ELLVTEAPSKPITVTVEEQRSQS VRPGADVTFICTAKSKSPAYTL VWTRLHNGKLPTRAMDFNGIL TIRNVQLSDAGTYVCTGSNMF AMDQGTATLHVQGSAEAGERS MYSISVLLKYTS
23256	53624	A	23390	3	13319	PASGRLRAARSGRRGASERESG AGRAGWRAPGALLALLH GRLLAVTHGLRAYDGLSLPEDI ETVTASQMRWTHSYLSDEYM LADSISGDDLGSGDLGSGDFQM VYFRALVNFTRSIEYSPQLEDA GSREFREVSEAVVDTLESEYLKI PGDQVVSVVIKELDGVVFVE LDVGSEGNADGAQIQEMLLRVI SSGSVASYVTSPQGFQFRLGT VPQFPRACTEAEFACHSYNECV ALEYRCDRRPDCRDMS

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23257	53625	A	23391	41	1323	HYLVFFLPSLRRYTVSLSPNSTS YQLLVPGPSY/SALPISSAASLY AGA\GGSGSRMSVSHSTSLRDG ISGGGLA/TGMARGLGGMGGI\Q NKKETTQSLNDSLAVRVRSLT ENRKLESKIREHLEKKGPQVRD WSHYFKTIEDLRAQIFANTVDN VRIFLQIDNARLAADDFRVKYE TELAMRQSVESDIYGLHKVIDD TNVINGCSFFMKKNHGEEVKC LQAQIASSGLTMEVDAPKSQDL AKITADISTRYDELARKNREEL DKYWSQPIEESTTEVTMQSAKV RAAEMTFMELRRTVQSLEIDLD LMRNPKASLENSLREVEACYA LQMEQLNLDP/GILLHLESELTQ TRAEGQL\QAQKYKALLNIKNK LEAEIATYCLLLEDGKDFNLGD TLDSSNPMQTIQKTTTSRIVDG KVVSETNDTKVWRH
23258	53626	A	23392	1	771	
23259	53627	A	23393	732	1656	SCSWTSPAAWPPNASLHSCLKR RNQDHLLWDWRFLDFPSSMA SKCQSPLLPKKKPRPLPALGP EKTTSAGLPKKGEKEQQETIE HIHEVQNEMDRLNEQAK\RSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSKSTEIKWKYKG DLMKRSSQTQNKAHRKRQHEE PESFFTWTDHSDVGADELGEV IKDIWPNPLQYYLVPDMDNEEG EGEEDDDDDDEEEEGLEDIDEEG DEDEGEDEDEGEKGEDEGE
23260	53628	A	23394	3	923	ARRLVVWFWDFPNSMAPKRQS PLPPQKKPRPPPAGPEETSAS AGLPKKGEKEQQEAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLRQPFFQKRSK\LSAGIPNFVW TTFVN\HPQVSALLGEEDEEAL HYL\TRVEVTEFEDIKSGYRIDF YFDENPYFENKVLKEFHLNE\S GDPSSKSTEIKWKSGKDLTKRS SQTQNKAASKRQHEEPESFTW FTDHSDAGADELGEVIKDDIWP NPLQYYLVPDMDDEEGEGEED DDDDEEEEGLEDIDEEGDEEG EEDEDDDDEGEEGEDEGEDD

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23261	53629	A	23395	732	1656	SCSWTSPAAWPPNASLHSCLKR RNQDHLLWDWRFLDFPSSMA SKCQSPLLPKKKPRPLPALGP EKTSASAGLPKKGEKEQQETIE HIHEVQNEMDRNLNEQAK\RSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSKSTEIKWKYKG DLMKRSSQTQNKAHRKRQHEE PESFTWFTDHSDVGADELGEV IKDIWPNPLQYYLVPDMDNEEG EGEEEDDDDEEEEGLEDIDEEG DEDEGEDEDEGEKGEDEGE
23262	53630	A	23396	3	924	ARRLVVWFWDFFPNNSMAPKRQS PLPPQKKKPRPPPAGPEETSAS AGLPKKGEKEQQ\EAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLRQPFFQKRSK\LSAGIPNFW VTTFVN\HPQVS\ALLGEEDEEA L\HYL\TRVEVTEFEDIKSGYRID FYFDENPYFENKVLSKFHLNE SGDPSSKSTEIKWKSGKDLTKR SSQTQNKAASKRQHEEPESFFT WFTDHSDAGADELGEVIKDDI WPNPLQYYLVPDMDDEEGEGE EDDDDEEEEGLEDIDEEGDED EGEEDEDDDEGEEGEDEGED
23263	53631	A	23397	1	1393	MGKQKGGGPQAWEAEGLGRE WMRMPQEKGKSQRKSTQKQT KREIDAYIVQAKERSYETVLSF GKRLNIAASPAVQAATKVLW APSPPAAPIPLRPFGLIQLLCQG AQRWQPGSREVKGRLCQARLA ETSSIAGNLRVQSYERPVDPGV TMDPLLPGRTIVFAAGDHTLW RAPVSSCAQRSGVWSDLNMGV NSGSVPFHGVRIQASQLISLFN FSFCEADLKTPLHGFLILPAGPK EEVTVKKEKRERDRDRQREGH GRGRGRPEVIQSHSIFEQG\P MMKKKGNWDKTVDSMDGPS HINIKKEKRETDEETKQILRML EKDDVDHHALSEHLVTTATFSI GSTGLVVYDYQQVECGGHVRA DLKTQDLYSHAQFGDNNYPGG VDWYRAGGLQDSDTEDECWS DTEAVPAPARPARPREKPLIRSQL RVVKRKPPVREGTSRSLKVRTR KKTVPSDVDS
23264	53632	A	23398	297	584	

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23265	53633	A	23399	2	149	CMKFGAVTPIGGPPLGDQSPVL LLFAL*KRSTYNLGSSDPPAQGI SHQF
23266	53634	A	23400	1	170	PAGIRHEERSTYDLWSSDRPGQ GTSHQF*IIRFQIPWNSGPRLSE* LLPRSSRLSS
23267	53635	A	23401	1	1077	
23268	53636	B	23402	289	1359	
23269	53637	A	23403	3	2233	
23270	53638	A	23404	1	1491	
23271	53639	B	23405	76	511	
23272	53640	A	23406	1	2706	
23273	53641	A	23407	273	862	
23274	53642	A	23408	1	1080	
23275	53643	A	23409	134	675	MHYFHSSVQIGLPLTRRSQVLIL PQPLLPNPIILSPPPLTPVPAYS FIL/PTSPPPPAPRQFPLKKVAEAK GIVKQLKTDTARSPRKPTGPSQ TLWVTLTVEDLKHAFFTIPLHP SSQPLFAFTWTDPDTHQAAQQT RAVLPQVFTDSPHYFSQAQISSS SVTYLGIILIKTHVLSLLIMSG
23276	53644	A	23410	1	895	MEVHKHPFNTLALRHESGCEL VVAEKHRNQIFPFPKSTASPKQ WDTGRHNSDAKQQEPGGREER NTMEMETKETHFIRGPKTLASV TDWEGSLPLVFNHCRGTSLIIHP RFKGVRPRRDACLGPSPLAASP AFLGKGQHALKGLKPVITRLLQ HGLLKPINSFPS\PILPVLKPDK AYKLVQNLRLINQIVLPIHPVVP NPYTLSSIPPSTTHYSVLDLKH AFTIPLHPSSQPLFAFT*TDPDT H*AQQTWAVLPQGFTRQPPLL QLSPNFILICYLSRHNSHKNTRA LPADRV
23277	53645	A	23411	1	930	MHQEHADKQVQRLQGVLLGSIP TAASRARLHPGEINNNHVAHTEP VWWSLHMDAYEIWCRGSDRR TSLGRSIPLPPALCSLRRIHLRPQ VLRSTSPRNISPISNPQGHLSDYTP TFQGCQTMQGRLPWSFTLSGK SRFSGEGATQRQYPIPQQALKG LMPAITRLLQHGLLKPINSFYHS PILPVLKPDKPYKLVQDLRLINQ IVLPIHPMVPNPYTLSSIPASTT HYSV\LYVKHAFFTIPLHPSSQP LSTFTWTDPDTHQAAQQT*AVL PQVFTDSPHYFSQAQISSSSVTY LGIILHENTRALPADHV

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23278	53646	A	23412	299	1028	RLGSFSSNHPYLGQRQYPIPQQ ALKGLKPVITCLLQHVLLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVPNPYTLT SIPPSTTHYSVLDLKAFFTIPLR LSFQPLFTFSWTDPDTHQAQQI TRAVLVQSFTDSPHYFSQAQIS* RLGSFSSNHPYLGQRQYPIPQQ ALKGLKPVITCLLQHVLLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVPNPYTLT SIPPSTTHYSVLDLKAFFTIPLR LSFQPLFTFSWTDPDTHQAQQI TRAVLVQSFTDSPHYFSQAQISS SSVTYLGIPGFAILTKPLYKLTK GNLADPIDPKSFPHSSFRSLKTA LETAPILALPVSSQPFSLPTAEV WAAQSEFLHKNRDRTE
23279	53647	A	23413	157	202	RSECARWMEK*CPWL
23280	53648	A	23414	184	482	EGVSFVLLSPYQQQPQVSRRCS/RQVSQRCPHRGRGPRCPQVS RSHGPSWVGHPGMPLYGS\EQF YCGAPGLAGPPNGSRGESLKIS VWIFPCRDFGNFN
23281	53649	B	23415	13	862	
23282	53650	A	23416	1	11342	MATRWFYYGHPPRNDARVPRIV AEAKEKNLTPGKIIEVDTVIEAQ IRQEFLDAERDTGGFVKFFRITK KKLQEFLGEEEEQVPHVSPVE LGAKPTAFNAFIANAVGKTLAV QHASLKAPEPEMTVTHERFYG NYAVWITDVDPRNHRIEVIHVI REISGRTSEYVNNLLAQPTPK VFDWLTTETQAKEFVRRLLNTQ GVISVYNKLEDGIPVKVAVKAT EPTNKEKLEAASTKLKAMGAV ATDAYEFHTDLNENE
23283	53651	A	23417	7597	7883	LSSLAWWQWNHRISVLFHSN SVRTNLVPQFNQLVITESNSCPE FFNQTSAFFKT*VESGCM/CLQD *GIEWFRLRLDVYNSRLVFLTG ATDYCTG
23284	53652	A	23418	3	1573	
23285	53653	A	23419	6692	6793	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23286	53654	A	23420	1	17727	
23287	53655	A	23421	6687	6785	VNTGNRTWWEPLFRK*KKTQR EDTTEKKTKGR
23288	53656	A	23422	1	2856	
23289	53657	A	23423	1	7194	

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23290	53658	A	23424	7460	7561	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23291	53659	A	23425	1468	1857	
23292	53660	A	23426	1	1985	MEPVGIDIIAISWIGAPEYPD NVKRAINAKVEATQKTLQREQEIQ QRVAEANMEREQAKGVADAIR LRGEALTENPNVMQLEAIN KWNGLVPFITSSPGMGKSAIVRQIA EDFGLKLIDHRLSTSAPEDLSGL PRFKENGRAEFAPFDELPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDRMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRLIHLEMETDFDVFME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCCSR TWEFV NKIVSILPPGPINSEMTLLL AGTI TSGVATSFVQFTQVYSNMVSL NEILDNPKKARM PEDNNLLWA VVTSLINNTDEDNHSKIFDYVE RMPFTFKVLYYRSRKTDM SMT DAQLTREYDRCQAKAFMGKTA AFGSLLCSLKFRWVKDGCDT AQTGEHLEWNPDWFE SLLPE SRVTVLMHELWHVGLLHSVR MGSRDPEVWNYACDIYINNQLI QDGYSFIGIENCWKDPKYAGW AEEQIYHDLMSKHPRPKASGA FGTGSGGDMKPSTSKASLKL SG GSLPGVLPKGKMEEVITQFLKP VVPWQVLLERFFNDLQETYY SWQRPNRRYPDMYLPSSMDDDCR LEHLAYFL*NEADLTGLLVLK* TDDGQS VSGQNLLQSDEQLQIY
23293	53661	A	23427	2365	2784	
23294	53662	A	23428	5789	5980	DQNMRF DNTFETYYWKPTIIVII IRKLLMNDSSKDTLK* LRCWK NWLQILKKHTIHFI MPLQL
23295	53663	A	23429	1	6819	
23296	53664	A	23430	376	2052	SKVCGNDGFADDLKHL LIFTGA QSGEDIVPFQLEDGHSLGEVVL LHGGSGVESGQR/CGRTSAGSC Y*SPGKICCCNLLVTKTEGFFAP VPIQLENTNQVTNCSDNW
23297	53665	A	23431	2	2189	
23298	53666	A	23432	2	1583	
23299	53667	A	23433	2142	2242	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23300	53668	A	23434	3	1188	
23301	53669	A	23435	470	862	
23302	53670	A	23436	1	1352	

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23303	53671	A	23437	1837	1955	SKCSIGLYQRYPYSNGC*NSGCI CRVY*CCREHRGYVRN
23304	53672	A	23438	1447	1565	SKCSIGLYQMYPYSNGC*NSGCI ICRVY*CCREHRGYVRN
23305	53673	A	23439	773	823	
23306	53674	A	23440	3	1529	
23307	53675	A	23441	1	1794	
23308	53676	A	23442	236	427	DQNMRFDNTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWQILKKHTIHFIMPLQL
23309	53677	A	23443	8510	8611	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23310	53678	A	23444	516	669	ATSELKRKASLGLMEPDVSRK* ARCSSLPSSSIGDGRYISGYLRL GRCHE
23311	53679	A	23445	410	593	FLNLIQPQGKRKLLLKRCRSLLP KN*CQHSKQHKLISSSVILNIT NS*PNKVKLMPILAM
23312	53680	B	23446	1	2286	
23313	53681	A	23447	1418	1723	CNTNIIFNCHFPTKLG CICKAMK VVSPLIHSIVILLNQITIDFFSTL AQICTFICLTYSKQTTRIASFK KVIEEFLSLAPIEKVELKEHS*YI SISEKV
23314	53682	B	23448	1	6167	
23315	53683	A	23449	1	3199	
23316	53684	A	23450	1	5733	
23317	53685	A	23451	709	1099	
23318	53686	A	23452	5039	5230	DQNMRFDNTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWQILKKHTIHFIMPLQL
23319	53687	A	23453	664	993	
23320	53688	A	23454	1	19859	MASIDSIAVCNPRQVRKFVEHC IRSGLVPFITSSPGMGKSAIVRQI AEDFGLKLIDHRLSTSAPEDLSG LPRFKENGRAEFAPFDELFPLEG DAPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDRMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRLIHLEMETDDFDVFME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCCSRWEFV NKIVSILPPGPINSEMTLLAGTI TSGVATSFV
23321	53689	B	23455	74	240	
23322	53690	A	23456	143	384	
23323	53691	A	23457	1	3267	

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23324	53692	A	23458	2	550	KRSSEHIQRIDRDVSGTLRKHIF FRDRYGTKQRELLHILLAYEY NPEVGYCRDLSHIAALFLLYLP EEDAFWALVQLLASERHSLQG FHSPNGGTVQGLQDQQEHVVA TSQPKTMGHQDKKDLGQCSP LGCLIRILIDGISLGLTLR\LWDV YLVEGEQAFMPITRIAFKVQQK RLTKTSR
23325	53693	A	23459	72	630	
23326	53694	A	23460	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPGRATGT DPLVQIHWKLGISEALSIPEGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNVDHLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEEIKLKNP GRYQVRSARAQPTGQAVSGAQ VSSWRERQDHGPGEIYK

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23327	53695	A	23461	1	832	MGWRARWLMPVISALWEAED PIPELTRLQQSQDPLLMGLFP TNPKEKTQEPPGQSRAPVLTV VSKFKVLAGLLHLGNIQFAASE DEAQPCQPMDDAKCEGQGVG WAGPVRKASLEQLLQLVLHSTT PHYIRCIKPNSQGQAQTFLQEE AGAGRRRQRRRQKQQRRRRQ LGGGGDGGNGSVGDDGATRGS RGCALEKECVATPRRGLLFSRP HKLAFAVGGSVTSVGPKPRAP MDVVEVAGSWWAQEREDIIM KYEKGHRAGLPEDKGPKPFRS YNNNVDHLGIVQDFADFGTTIK QDFRLLGQTSDRLLQLSQGQ AVKGNQLLPVSLVKRKTLAP NTQTASPRALADSLMQLARQV SRLESGHFYDAHNPFLPPPSMS KQAKKTGVSEGLCRPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AVSATQLIGLQLILLGEVLQKV LTASYPAQSSVPLTSGPVRQIM KEKGKRSSEHIQRIDRDISGTLR KHMFFRDRYGTQKRELLHILLA YEEYNPEVGYCMDLSHIAALFL LYLPEEDAFWALVQLLASERHS LQAARAPAAIGAHERADQAQIS LGLTLRLWDVYLVEGEQALMP ITRIAFKVQQKRLTKSRCGPW ARFCNRFVDTWARDEDTVLKH LRASMKKLTRKQGDLPPPAAKPE
23328	53696	A	23462	3	497	SSECLTMAWIPLLLPLLILCTVS VASYELTQPASVSVSPGQTASIT CSGDVLAKKKYARWFQQKPG QAPVLVIYKDSEPSGIPERFSG SSSGTTVTLTISGAQVEDEADY YCYSAADNNNGWVFGGGTKLT VLSQPKAAPSVTLPVPSSEELQ ANKAHTGVSQ
23329	53697	A	23463	1	393	FRSGSELVKAGLRAFFENAAED LEKTSENLKLGFTHSRTQIKG VSQNINYTTVALLPILTSIFEHV TQHQFGMDLLGDVQISCYHIL CSLYSLGTGKNIYVE\ILGMPDT VEDMCPDIPQLECLMKEIN
23330	53698	A	23464	319	508	
23331	53699	C	23465	94	222	
23332	53700	A	23466	1	636	
23333	53701	A	23467	1	483	
23334	53702	A	23468	1	1797	

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23335	53703	A	23469	1	4275	
23336	53704	A	23470	1	1848	
23337	53705	A	23471	122	14928	ARSWRRWRTRTKRRRKSA AVSARRAAAGGSRGAGGWGT ADASGAMAEGGEGGEDEIQFL RTEDEVVLQCIATIHKEQRKFC LAAEGLGNRLCFLEPTSEAKYIP PDLCVCNFVLEQSLSVRALQEM LANTGENGEGAAQGGGHRTL LYGHAVLLRHSFSGMYLTCLTT SRSQTDKLAFDVGLREHATGE ACWWTIHPASKQRSEGEKVRIG DDLILVSVSSEYLYHLSVNGNI QVDASFMQTLWNVHPTC
23338	53706	A	23472	134	1063	RPPGLTRSPSSPAPARS PTRRQS TRRRSGATTSCSQRQLWATWNG CD/VCLNQLSREIPTDDKGFTAI HFAAQWGKLA CLQVLVEEYKF PVDLLTNNSQTPLHLVIHRDNT TVALPCIYLL EKGADLNAQTC NGSTPLH LAARDGLLDCVKVL VQSGANVHAQDAMGYKPIDFC KIWNHRA CARFLKDAMWKD KKDFAREMTKMKMFKSQLTL MEHNYLIEYQKEHKILREAAIR KWLHGKLHPGHSLVSNTKQAR ATALSKTPEQRESQRSRSFHP DARLQCIPQPTEMPKPIYRKPTV KRPHNVEC
23339	53707	A	23473	1	1280	MAGLGFWGH PAGPL LLLL LPPRALPEGPLV FVALVFRHGD RAPLASYPM DPHEVASTLWP RGLGQLTTEGVRQQLELGRFLR SRYEAFLSPEYRREEVYIRSTD DRTLESAQANL AGLFPEAAPGS PEARWRPIPVHTV PVAEDKLLR FPMRSCP RYHELLR ETEAAEY QEALEGWTGFLSRL ENFTGLSL VGEPLR RAWKVL DTLMCQQA HGLPLPA WASPDV LRTLAQISA LDIGAHVGPPRAEKAQLTGGI LLNAILANFSRVQRLGLPLK MYSAH DSTLLA LQGALG LYD HTPPYAA CLGFEFRKHLGNPAK DGGNVTVSLFYR NDSAHLPLPL SLPGCPAPICPLGRFYQLTAPAR PPAHGV TCHGPYEA AIPPA P VVPLLAGAVAVLVALS LGLLLA WRPGCLRALGGP

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23340	53708	A	23474	133	672	AVGWESGKWDSGRGQGGQEQ QMWSCQSDMLYPPDQVGAWG LPGPTGPKGDAGSRGPMGMRG PPGECPQCCPTAPLAIPSTRWAL PCSWPPGPPGPPGPPAPVGPPHA \GSPSMVSPPGIPAGGGGGVAI STVPATIKTRRQEVSPELPRP/PG PAPPPGPDVRPWLLRPPGPMGK LSPGQG
23341	53709	A	23475	135	677	AVGWESGKWDSGWGQGGQEQ QMWSCQSDMLYPPDQVGAWG LPGPTGPKGDAGSRGPMGMRG PPGECPQCCPTAPLAIPSTRWAL PCSGPPGPPGPPGPPAPVGPPHA \GSPSMVSPPGIPAGGGGGVAI STVPATKKTRRQEVSPELPRP/P GPAPPPGPDVRPWLLGPPGPMG KLSPGQG
23342	53710	A	23476	220	745	TVIQRGLHSVGPQDPQQQLRE AKLGTMVRLVLLPTPRRTTEVR TGPERELSMVLEAILGSLLETAC DHRQTPPSSKPQA/GSSRLREGT SAGQPCS/LRLRLGPRAGGRRC CRIERSSSSVCGRKCKRKRR KRGMCQSRHKHGCRRPQEGPR CNDGRALCSPRPQTTGPLSTA
23343	53711	A	23477	1	2433	
23344	53712	A	23478	3	803	FPGRRFRVRACVAGGSHCLFNS CCCCTSASLPARERHEWPGPAA AAAAAAAARRSQTQREGLFA GWGGGFAMSDDDRASTSSSSS SSSNQQTEKETNTPKKKESKVS MSKNSKLL\SPRAKGIQKEL\AD ITLDPPPNCAGPKGDNIYEWR STILGPPGSVYEGGVFFLDITFTP EYPPFKPPKVTFRTRIYHCNINSQ \GVICLDILKDNWSPALTISKVL LSICSLLTDCNPADPLVGSIAHQ YMTNRAEHDRMARQWTKRYAT

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23345	53713	A	23479	372	1839	GEAGGTEAEPENGAGGPRVPG WWGWSSTSSPRGCWDSGRSAA AIMDFLWDKRTGLAARKMPHP RRYHSSERGSRGSYCEHYRS/R K/HKQRRSRSSWSSSDRTRRRR REDSYHVRRCRSRTFSRSSSQH SSRKAKSVEDDTEGHЛИYHVD WLQERYEIVSTLGKGTGRVV QCVDHRRRGARVALKIIKNVE KYKEAARLEIKVLEKINEKDPG KNLCVQMFDWFDYHGHMCISL ELLGLSTFDLKDNNHLPYPIH QVHHMASQLCQA\VKFLHDNK LTHTDLKPE\NLFVN\SDYELTY NLEKKRHERSVKSTA\VRVGDF GSATFDHEHHSTIVSTRHYRAP EVILELGWSQPCDVWSIGCHFE YYVGFTLFQ\THDNRQH\LATME RILGPIPSRMIRKTRKQKYFYRG RLDWDENTSAGRYVRENCKPL RQYL\TSEAEEEDHQLFDLIESML EYEPAQR\LT\GEALQHPFFSRL WAEPPNKLWDSSQDISP
23346	53714	A	23480	28	941	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFFFNFLPIHTQPSAH KDMTTNAGPLHPYGPQHL\RLD NFVPN\DRPTWAYTGLGLFSVT GGLRSWTTWAVVQGRAAGCPI GDFGRATVPCCVWLQCVGFIH LVIEGLVPFSNYERPCFGDQSLL NLKLW\KEYGQGETARLHPGG DKFHSVALGTITSFA\WGEPSL WV\WVIA\FL\LLQHPL\RFIL\QLVVS VG\QIYG\DV\YFLKEHPRRDS KHGKPGPTPLLPGFSFVFHEM PLWLVPAPGSPLCLDA\VKAPS THA\PEHAWNAKGPQKPKSKKN

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23347	53715	A	23481	1	1386	MWRNLKLPDRDLLNGFDQNADS DMDNEVQAEVVTDGDEELIGN WSKGHSCYILAKRLAAFFPCPK DLWKFELERDDLGYLAEEISSS EAFKSVSYEKAHAWNPLESTC RHASLALAVVLQRRDWENP\G VTQL\NRLAAHPPFASW\RNSEE ARTDRPSQQLRSLNGEWRLMR YFLLTHLCETLVKVKDAEDQL GARVCVLERQIFDFLGYQWAPI LANFVHIIIVILGLFGTIQYRPRY ITGILSFPKHQESLSLKFTCLTEA ERDTDALLHLENACRESTATQR IQGFFLKDJKRKKQQPQQQKQ QQWAKVQLGPWLQRVQAPSL GSFHGVLSLRVHRSKELRFRNC CLDFRGCMEMPGCPGRGVQLQA QNPRGEPLLQCRREMCGGSP YIVPTGALPSGAVRRRPPSSRPH NGRPTDSLHCVPGKAADTQHQ PLKAARRAAVPCAKATGSELPK
23348	53716	A	23482	3	732	SPLPTATSGNPSKASSPGGLGS LVSTASSLPAGEKNSPRTGPGP RRAG\AGIPNSGPDTVEGPYNL CGRQGRWGGIISLASEMKLQT LQTSVTTAKATLLELFVPLGGI VASLASEVRLQIFPRGGHLQSA KCGLLLHFSLPTSRSGRRKANR PMAVTLLVLIRDCADLLAVK AVIHCYQDQWPLRGSSRPANTP PPKASVSRRPPGHRGVRRGSPL LQVGARRVGAEPALLELQSPS
23349	53717	A	23483	1	234	
23350	53718	A	23484	1	256	MLNLQGKEWLELEEDAQKAYI MGLLDRLEVVSERRLKVARA VLYLAQDGEKFCPKRDCTNNS/ RY/NSI*MIQMMRFGTLELMRL
23351	53719	A	23485	1	3333	
23352	53720	A	23486	1	2661	
23353	53721	A	23488	3	433	

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23354	53722	A	23489	3	990	EKMNTADQARVGPADDGPAPS GEEECEGGGEAGGKEPAADAA PGPSAAFRLMVTRREPAVKLQ YAVSGLEPLAWSEDHRVSVST ARSIAVLELICDVHNPGQDLVIH RTSVPAPLNSCLLKVGSKTEVA ECKEKFAASKDPTVSQTFMLDR VFNPEGKALPPMRGFKYTSWSP MGCDANGRCLLAALTMDNRL TIQANLNRLQWVQLVLDLTEIYG ERLYETSYRLSKNEAPEGNLGD FAEFQRRHSMQTPVREWSGI CTTQQVKHNNESRDVGSVLLA VLFENGNIAVWQFQLPFVGKES ISSCNTIESGITSPSVLFWWYE HNNRKMSGLIVGSAFGPIKILPV NLKAVKGYFTLRQPVILWKEM DQLPVHSIKCVPLYHPYQKCSC SLVVAARGSYVFWRLLLISKAG LNLHNSHVTGLHSLPIVSMTAD KQNGTVYTCSSDGKVRQVIPF TDVALKFEHQLIKLSDVFGSVR THGIAVKPCGAYLAIITTEGMIN GLHPVNKNYQVQFVTLKTFee AAAQLLESSVQNLFKQVLDIDL VRWKILKDKHIPQFLQEALEKK IESSGVTYFWRFKLFLRILYQS MQKTPSEALWKPTHEDSKILLV DSPG\MGNADEQQEEGTSSKQ VVKQGLQERSKEGDVEEPTD\D SLPTTG\DAG\GREPMGRRNSW GNSKGKIRSCWEMRLTREHMK
23355	53723	A	23490	1218	1446	RCTDSQVRSPPTPLHAAQACSL ETTVCLLC SKADYTLSEKRGW MPIHFAAFYDNVCIIALCRKDP SLEAEATAE
23356	53724	A	23491	2	632	NMAKTYDYLFKLLLIGDSVG KTCVL\FRFSE\DAFNSTFIFTIRI DFKIRTIELDGKRIKLQIWDTAG QERFRTITTAYYRGAMGIMLVY DITNEKSFNDNIRNWIRNTEEHAS ADVEKMLGNKCDVNDKRQVS KGS/GENKLALDYGIKFMETSA KANINVENAFTLARDIKAKMD KKLDGNSP\QGSNQGVKITPDQ QKRSSFFRCVLL

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23357	53725	A	23492	1	1018	MVFYHVGQAGLELLTSGPHCP DSQAADKAESATLLSARLGA YCACASLERRWPHFPGRECN MAKTYDYLFKLLL\IGDSGVVK TCVLFRFSEDAFNSTFISTIGIDF KIRTIELDGKRIK\LQIWDTAGQ ERFRTDHNRPTYRGAMG\I\ML VYDITNEKSFVDNIRNW\TRNIE EHASAD\VEK\MILGNKCDVND KRQVSKERGEKLA\LD\YGIKFM ETSAKANINVENAFTLARDIK AKMDKKGPARPHGTLGKGE EFAGVAGASASGSASLGTLPKQ TRPCPVNPQASREHTAFSIPLKG QKDNEGNSPQGSNQGVKITP DQQKRSSFFRCVLL
23358	53726	A	23493	1	130	
23359	53727	A	23494	1	1392	
23360	53728	A	23495	445	649	YPSLTNSKLLVHH\FMELC\WD KCVEKPQGIALDSRTENCLSSC \WDRFIDT\TLAITSRFAQIVQKG GQ
23361	53729	A	23496	210	397	VIYAPGKKAQRTQK/APKTKTK KPHLSPCPSP/WRSRSCQPMQQS WSGAQVHIPQPPHTTCITWA
23362	53730	A	23497	55	286	QASSSPPISSVTCRKALPPGQTK KGLVASGDPEPVSMGTSSPTPS LAPEHSSRASLEPSSA*PSLAT* SRAGGSQA
23363	53731	A	23498	780	1022	QAMHGRSPGVTVRASGLRNEG DGPLGSVPTQARATGAPGHSAT PSPAWRAWSSSKAS/WLPDA AGPPTPPWSGPSPPTSW
23364	53732	A	23499	1	782	
23365	53733	A	23500	275	688	

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23366	53734	A	23501	1166	2271	LRCILTLISRWC*VSTVANLPP GISKGWGANWQRCEMKE*CWSP AVTWCITCAQRSG/IGDSSPYPG ATSFNEYVKANLTWRGPVEQH PLVNYLDHERGTLNSPTARHYL PVLYVLRAILWARTPLPIPGRRTT VSKVKMKRILRAMRQKQQVPL PLVGLGLDELSMSAPSIPAAK ARMAQLDSRECRKLLNQAMA CRTSLEVEHLLAQFRMTQQDA PLVTAECITLESWDWSKEEVLK GMTDNLLLAGRCYPRKLEAD LWAREAVFSTGLGFSFAIPHSK SEHIEQSTISVARLQAPVRWGD DEAQFIIMLTLNKHAAGDQHM RIFSRLARRIMHEEFRNALVNA ASADAIASLLNMNWTVKEHHE
23367	53735	A	23502	1	2604	
23368	53736	A	23503	306	468	TRHCDRRQPRRGHRRAGT/CNQ I*KGCCCVRTKQPLSSVLISPNS CPCSSFLKNS
23369	53737	A	23504	102	509	AAQQGTMARSLLLPLQILLSL ALETAGEEAQGDKIHDGAPCAR GSHPWQVALLSGNQLHCGGVL VNERWVLTAAHCKMNEYTVH LGSDTL/E/ADRKAQRIKPSKSF RHPGYFTQTHVNDMLVKLNS QARLSSMVK
23370	53738	A	23505	1	1032	MMQATVGFEDGDAATSQVSPS VNKVHSSIYFLDFEEYIVIAFKI LRRGPDISCSQIINGEDCSPHSQP WQAALVMENE/LFCSGVLVHP QWVLSAAPVSRKYNRPLL LMLIKLDESSESDTIRSIASQ CPTAGNSCLVSGWGLLANDPT SRVLPPLCERNPVPQLLPPEKP RTAPDTLGSSPVPKSRTGSSGSS FLLPAPPSPFPRPHHGTPPTSCG QDVDPALAGGSLGSPAGEAL PRLAAPERLSRHGKIPSPAPAD LTAILALETAGEEVPFPLTSCA WMSSSSPPGLHEGLQGLTGKFH AVRWHPRLQEKRQLQSVPSPD IPGARRPAAR
23371	53739	A	23506	303	393	

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23372	53740	A	23507	391	1170	GSFFFFFFKYFAYSPMPKNSKVV KRELDDDVTESVKDLLSNEDA ADDAFKTSELIVDGQEEKDTDV EGK\SEVEDERPAWNSKLQYIL AQVGFSVGLGNVWRFPYLCQK NGGVVEPECEQSSATTYYWYR EALNISSSISESGGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLAQEQWQT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQLRVCDDGKQQWWTV SQSSARAITNDQKSVQLQDLIE
23373	53741	A	23508	45	546	EGGGSRSLWFRELIBQPVQSFIE PVAAGGAVALNVQ/RSCGVVS AAPACL*SRPHSWRWGGPACW RTPGG/LASRSSSSASILMSSSRA SFTRSLSLLSTHKDQGLVCSGSS GATGAGSC/LWPPTSHTVKLMF LYSTVSTLKPVMVGMVVTISPL SL*RIVVFPAASRPT/YEDAHFFF CQKGP*RGSWSSLQHPGPP
23374	53742	A	23509	1367	2142	VRRPQGCLGKRSLLSRVCALVP WGIWP/WSLAVGPQYSSLGSQP ILCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQECQHQFRGR RWNCTTVHDSLAIFGPVLDKG YFGYLETITVPSDSVVSTKAETP DKGVCGRELGFRRGGWLPQELQS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFAVTRSCAEG TAAICGCSSRHQGSPKGWKW GGCSEDIEFGGMVSREFADARE NRPDARSAMNRHNNEAGRQV GSPPARVLGKKEPPQQGVCPGS LGHMARSLAVGPQYSSLGSQPI LCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQECQHQFRGR RWNCTTVHDSLAIFGPVLDKG YFGYLETITVPSDSVVSTKAETP DKGVCGRELGFRRGGWLPQELQS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFAVTRSCAEG TAAICGCSSRHQGSPKGWKW GGCSEDIEFGGMVSREFADARE NRPDARSAMNRHNNEAGRQ

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23375	53743	A	23510	2094	2619	ASPASPAPCSGIPRT*SPYPSPSR TQ\APRARGPAIHAHPGP/RGCT ALPRQGPPTPGSARAPPRIPAH APTSPTLNFCCLASSRQSMPPAPR PPPVPATNPVTPGCGRPPPTLGC RNPQTLRPPPGLPSPALLRRPLP PPARVGMPHQPPPLPTTPACWR PVDWARAEGAGRAVC
23376	53744	A	23511	3050	3317	PARTSPSASGPP**DLISALWTPS QPRAPTRQSLNSLSSSAPSSSTIG PSPSPAPGPAPPLPWLPPSPSSL PRLSQVSRRPHSHLHPQ
23377	53745	A	23512	862	2954	AEHTLLVCFLNTSLTTTSTHVES FGGQLRGSQIGHPRRPNKMPYA WSIPQDPPLKPERDPGPGPLGV LSLPVNQYGESEEPMGDDDYD EYSKELNQYRRSKDSRGRGLSR GRGRGSRGRGKGMGRGRGRG GSRGGMNKGGMNDDDEFYDE DMGDGGGSYRSRDHDKPHQ QSDKKGKVICKYFVEGRCTWL YHTTGNCINGDDCMFSHDPLTE ETRELLDKVEMTGSSVFDYIHP GDHSEVLEQLGLRTPTPGPPTPP SVSSSSSSSSSLADTPEIEASLT VPPSSLVQERSFFVRMKSTLT RGLHVKA SGYKVIHVTGRLRA HALGLVALGHTLPPAPLAELPL HGHMIVFRLSLGLTILACESRVS DHMDLGPSELVGRSCYQFVHG QDATRIRQSHVDCETHLHPPSL PTTPQTRASHSLVPGSPSSGLPT VPPAAPTAPGTPFSIGRAARRLS DASGLLDKGQVMTGYYRWLQ RAGGFVWLQSVATVAGSGKSP GEHHVLWVSHVLSQAEGGQTP LDAFQLPASVACEEASSPGPEPT EPEPPTEGKQAAAPAEANEAPQTQ GKRIKVEPGPRETKGSEDSGDE DPSSHPATPRPEFTSVIRAGVLK QDPVRPWGLAPPGDPPPTLLHA GFLPPVVRGLCTPGTIRYGPAL GLVYPHLQRLGPG\PALPEAFYP PLGLPYPGPAGTRLPRKGD

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23378	53746	A	23513	1319	2211	GSKVYGSLLFHINHGNPFNMEVL VDSWPEYQMVIIRPQ/ETVRGE EKVQGNDLTFHPTQEMTDDM DSYTNVYRVFSKDPQKSQEVL KNEIIINWKQKLQIQGFQESLG EGIRAAAFSNSVKVEHSRALLF VTEDILKLYATNKSKLGSWAET GHPDDELESETPNFKYAQLNVS YSGLVNDNWKLGMNKRSLRYI KRCLGALPAACMLGPEGVPVS WVTMDPSCEIGMGYSVEKYRR RGNTRLIMRCMKYLCQKNIPF YGSVLEENQGVIRKTSALGFLE ASCQWHQWNCPQNLVPL
23379	53747	A	23514	234	858	SVPLQESPLPPPHTQADC*SPC GAQGGWVTLAVASASS*AHTA SPLRSPQAQGRAPSPAPPQIHL TTPSSFSSQGT/SHGLGSTPGA DDPNTSSS\PPPGGSTPRWSAGD SAHSGGEVDGWS*SFP*SVPSY GT*SPFCPWPSQRSFHGIASG WEPDGIPDGSSRWEPCGKPQES ETGVEGRQHFPKQLCLGSCRA VASPRVARA
23380	53748	A	23515	1	3582	
23381	53749	A	23516	628	4254	RLPESRAHDVAGADERPWPVH AGIFKSPAAGAACMSPAAAAG AGERRRPIASVRDGRGRGCGGP AGAALLGLSLVGLLLYLPAA AALAALAVGTTAAWWGLSRE PRGSRPLSSFVQKARHRRTLFA SPPAKSTANGNLLEPRTLLEGP DPAELLLMGSYLGKPGPPQPAP APEGQDLRNRPGRPPARPAR STPPSPPTHRVHHFYPQLPTPLL RPSGRPSPRDRGTLPDFVITPR RRYPIHQTQYSCPGVL
23382	53750	A	23517	1	392	KVHMNGLRYALYIMGPALTRG CHQVLIMLCCEVIERILT/VMM KEAYFGEVDIMDDLPT\GNISA NVTGRLYKCGVINHTVDLRRM KT/EKWQNNLLPSRQFGFIVLTT SAGIMDHEEARRKHTGGKILGF
23383	53751	A	23518	227	352	

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23384	53752	A	23519	3	507	SFRAATMVRMNVLADALKSIN NAEKRGKRQVLIRPCSKVIVRF LTVMMKHGYIGFEIIDDHRAG KIVVNLGRLNKVGQWRDLG YCNLCLPGSSDSSASASLVAEIT \CGVISPRFDVQLKDLEKWQNN LLPSRQFGFIVLTTSAGIMDHEE ARRKHTGGKILGFFF
23385	53753	A	23520	279	653	ARAQRFSSQVDVFYLIQSVIFCR LALAEFEIIDDQPQLGKLL*TLT GRLKQ/CLGVISPRF/DVQLKRP WKKWHEIIL/PSNPAKFGFIVLT TSAGLHG/HHEGRQDRKHTGG KILGILLYRDVIHIFT
23386	53754	A	23521	1	392	KVHMNGLRYALYIMGPALTRG CHQVLIMLCCEVIERIL/T/VMM KEAYFGEVDIMDDLPT\GNISA NVTGRLYKCGVINHTVDL/PPY ENGKWQNNLLPSRQFGFIVLTT SAGIMDHEEARRKHTGGKILGF
23387	53755	A	23522	108	371	LSYIGKFEIIDDHRAGKIVVNLT GGLNKCGVISLRFDVQLKDLEK WQNNLLPSQCFGIA\TTSA MDHKEAR*KHTAGKILEFFF
23388	53756	A	23523	252	378	
23389	53757	A	23524	3	518	HASAFAATMVRMNVLADAL KSINNAEKRGKRQVLIRPCSKV VRFLTVMMKHGYIGFEIIDDH RAGKIVVNLTGRLNKVGQWR DLGYCNLCLPGSSDSSASASL AEIT\CGVISPRFDVQLKDLEK WQNNLLPSRQFGFIVLTTSA MDHEEARRKHTGGKILGFFF
23390	53758	A	23525	279	709	ARAQRFSSQVDVFYLIQSVIFCR LALAEF*NPLMTHQSLGFV PHRAGLNKCGVISPQILTVQLQ RPWKKWAGLILLP\SRQVLGF I\VLTTSA\MDHEEARPKPR GKSWGFFFLGDVNYILFYKL KLC LMDSGASTWSF
23391	53759	A	23526	207	564	SMAKEAISINRSLWAGPAKISSP AETE\IESLISLFQKYVGKGGYN CTLSKTEFLSFMNAELAAFTKN QKDPGVLHRMMKKLGTNNNDG QLDFSEFLNLIGGLAMACHDSF LKAVPSQKRT

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23392	53760	A	23527	1	407	FREKQSQELSQY GAMGAGQSF NSQFLQHGGPRGSPV PAGMNP TGIGGV MGPSGLSPLAMNPTRA AGMTPLYAGQRLPQH GYPGPP QAQP/PAPTGGQENLL*GVSRA AVSARSLPGPFRAIPVSHLAGNP TPPMNPH
23393	53761	A	23528	3	315	
23394	53762	A	23529	1	763	DYEEITIDPTCSWKPV PKPDM HIKEEPDGPA LKRCRTVSPA HV LMPSV MEMIAALGPGAAPFAPL QPPSVPAPS DYPGQGSSFLGP GT FPESFPPTT P STPLAEFTPGP PPI CYQSDIPSSLLTSEKST/SLPLQA RR/PPAGHLDPTHNP GTPGLHTS NLGAPP GPQLHH SNPP PASRQS LGQASLGPTGELAFSPATGVMG PPMSGAGEA PEPAL DLLPELT NPDELLSYLGPPDLPTNNNDL LSLFENN
23395	53763	A	23530	1	2901	MERRGPGAA TARGRARP GGGP SVGL LATGSSLNPSF HGVARIVP GFI RIARPRDG SFAYESVPWQQS ATQPAGSLSVTTVWGVGNAT QSQVLGNPMGPAGSPSGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVY SRGGYP GAPGFTTGYAGGP GGLGLPSH AARPSTDFTQAAAAAA VAAAAA ATATATATATVAALQE KQS E LSQY GAMGAGQSF NSQFLQHG GPRGSPV PAGMNP TGIGGV M
23396	53764	A	23531	80	412	KPGNGACAGREWC DGGGA W NWRDPGLPVGD SGVWDRV LLE LLGPRSPRPLDVGGP AAGTPGV LSR/HLPVDCGLGPE ALLCSSAP AARRPSLCGGHGRVMRGFRLG CGFRP
23397	53765	A	23532	1	192	RPLDVGGP AAGTPGVLSR/HLP VDCGLGPE ALLCSSAP AARRPS LCGGHGRVMRGFRLGCGFRP

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23398	53766	A	23533	1	2094	RPLDVGGPAAGTPGVLSRPCPS TAALAPKPCAAAPRPQPDAPAC AGATGGSCADFDSGVDFVRRR SSGLWGPQPPLFPVKNYTEMFQ DPVAFKDVAVNFTQEEWALLD ISQKNLYREVMLDTFWNLTSIG KKWKDQNIEYEQNPRRNFRS VTEEKVNEIKAEDSHCGETFTPV PDDRNLNFQKKKASPEVKSCDSF VCGEVGLGNSSFNMNIRGDIGH KAYEYQEYGPKPCCKQQPKKA FRYRPSFRTQERDHTGEKPYAL LKNDGKPLFYHSSIQRHMVV HSGDGPYKCKFCGKAFHWLSL YLIHERHTHTGEKPYECKQCGKS FSYSATHRIHERTHIGEKPYECQ ECGKAFHSPRSCHRHERSHMGE KAYQCCKEGKAFMCPRYVRRH ERTHSRKKLYECKQCGKALSSL TSFQTHIR\MHSGERPYECKTCG KGFYSAKSFQRHEKTHSGEKPY KCKQCGKAFTRSGSFYHERTH TGEKPYECKQCGKAHERHTG EKPYECKLYGKALSRLLISFRRH MRMHTGERPHKCKICCGKAFSS PSSFQRHERSHTGEKPYKCKQC GKAFTCFHF\FQYHERHTHTGEK PDGCKQCGKAFRSAKYIRIHGR THTGEKPYECKQCGKAFHWVS SFHRHERTHAGEKPYECKHCG KAFTCSIYIRIHERIHTGEKPYQ CKEKGKAIRSSYCRKHERTHTI

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23399	53767	A	23534	48	1317	CGLMDELVHDLTSALEQTSEQ NKLGELWEEMALSPRQQRRQL RKRRGRKRRSDFTHLAEHTCC YSEASESSLDEATKDCREVAPV TNFSDSDDTMVAKRHPALNAI VKSKQHSWHESDSFTENAPCRP LRRRR\KVKRVTSEVAASLQQK LKVSDWSYERGCRFKSAKKQR LSRWKENTPWTSSGHGLCESA ENRTFLSKTGRKERMECETDEQ KQGSDENMSECETSSVCSSDT GLFTNDEGRQGDDEQSDWFYE GECVPGFTVPNLLPKWAPDHCS EVERMDSGLDKFSDSTFLLPSR PAQRGYHTRLNRLPGAAARCL RKGRRRLVGKETSINTLGETRIS HIISDPRQKDFWLPSAGKRERN QFNPLSPLYSLDVLADASHRRC SPAHC SARQANVHWGPPCSRDI KQEAETSGHSIFV
23400	53768	A	23535	225	403	
23401	53769	A	23536	1	403	REQEFLHMAPGEVTITVR\LI RSEHR\NFKPVVYHGVNLDQTV KEFIVFLKQDIPRLTNLPPPFRN YKYDALKIIHQAHKSKTNELVL SLEDDERLLKEDSTLKAAGIA SETEIGIF\REEDYRNYKANPISS
23402	53770	A	23537	2	239	
23403	53771	A	23538	2	214	
23404	53772	A	23539	1	1341	
23405	53773	A	23540	1	1677	
23406	53774	A	23541	1010	1509	
23407	53775	A	23542	1	6355	
23408	53776	A	23543	223	10504	VKMPIGSKERPTFFEIFKTRCNK ADLGPISLNWFEELSSEAPPYNS EPAAESEHKNNNYEPNLFKTPQ RKPSYNQLASTPIIFKEQGLTL P LYQSPVKELDKFKLDLGRNVP NSRHKSLSRTVKTKMDQADDVS CPLLN SCLS\ESPVVLQ\CTHVTP QRDKSVVCGSLFHTPKFVKGR QTPKHISESLGAEVDPDMSWSS SLATPPTLSSTV LIVRNEEASET VFPHDTTANVKS YFSNHDESLK KNDRFIASVT
23409	53777	B	23544	137	709	
23410	53778	A	23545	1	1974	

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23411	53779	A	23546	207	1622	MACCL\ SDEVKESKRINAIEIKA AAAEETRRDARREL/ RRLLLLGT GESGKSTFIK\ QMRIIHAGYSE EDKRGFTKLVYQNIFTAMQAM IRAM\ VETL\ KILYKVRSRTRANA L\ LIRGGGTLEKVTTFGAFSYVQ LPLKDLFGRDPGIQE/ CAYERQP RSYQLSDSAKYYLTDVDRIAL GYLPTQQ\ DVPAWSRVPTT\ GIIE YFPFDLENIIF\ RMVDVGG\ QRS\ E RRKWIHCFENVTSIMFLVALSE YDQVLVESDNENRMEESKALF RTIITYPWF\ QNSSVILFLNKKDL LEDKIN\ LYSHLVDYFPRSSMGPQ R\ DAKAAREFILKMFVDLNPNS DKII/ YTSHFTCPHRHRRRTSRFVF PAVKDTILQLNLEEYKPGSAP GPGRRDGTGQDLPSTEAAA RAGGAAESEGPGPLPAGGDFFFF IFLTNGFYFTVIRGCTSLLPPYTSR TFSPFVNGKGSFLALTYGSLFS KKKKKKKE
23412	53780	A	23547	1	401	KKVPGRLSEMSFSLNFTLPANT TSSPVTDCCGPSLGLAAGIPLLV ATALLVALLFTLIHRRRSSIEAM EESDRPCEISEIDDDNPKISENPRR SPTHEKNTMGAQEAEHIYVKT AGSEEPVHDYRPTIEMERRR
23413	53781	A	23548	584	1071	PCRLPLHLILVEDLSFSLNFTLP ANTVSTAAPIHQAT/ PEKTSASF TDCGPSLGLAAGIPLLVATALL VALLFTLIHRRRSSIEAMEESDR PCEISEIDDDNPKISENPRRSPTHE KNTMGAQEAEHIYVKT AGSEEPVHDYRPTIEMERRGLWWL VPRLSLE
23414	53782	A	23549	25	654	LFLQMKDTSP\ IIFVRKELTIRQC TKKVPGRLSEMSFS\ LNFTLPAN TTSSPVGGKETDCGPSLGLAA GIPLLVATALLVALLFTLIHRRR SSIEAMEESDRPCEISEIDDDNPKI SENPRRSPTHEKNTMGAQEAEHI YVKTVT\ KSEEPVHDYRPTIE MERRGLWWLVPRLSLGMMP TSNQGSHQTWHLGTGLKTQGF VLGEERCQAAS
23415	53783	A	23550	108	413	RRSGSMALWRAYQRALAAHP WKVQVLTA/ GLLGRKAALLAP CQ*LYLPTQASWTEGHASCSSL QEATSCPSAFCA*NSKATKQLV ERRGLQEHQRGRFLTLMVS

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23416	53784	A	23551	1	146	
23417	53785	A	23552	2	442	GREARRRSRSMALWRAYQRALA AHPWKVQVLTAVASGEEGSTA GPMPVAIPADPGLLD*RTRFLLL TPRSHFLPLCLLRMKLKSHKRS LMGLGDIISSQLVERRGLQEHQ RGRTLTMVSLGCGFVGVPVVG WYKVLDRFIPGTTKVDA
23418	53786	A	23553	3	675	RHSRFGAQGSMALWRAYQ\RT LF\ALPWK\VVQVLTAGSLMGLG DIISQQLVERRGLQEHQRGRTL E/TMVSLGCGFVGVPVVGWYK VLDRFIPGTTKVDAKKMLLD QGGFAPSFLGCFLPLVGALNGL SAQDNWGQTTAGELG/RDYPD ALITNYYLWPAVQ\LANFYLVP LHYRVA\VVQCVAVIWNNSYLS WKAHRALSLPHSIVSTLQVMQ LDPWNGSDNPPPKWA
23419	53787	A	23554	512	1227	LQGHLMGIMAASRPLSRFWEW GKNIVCVGRNYADHVREMRSA /VWLSEPVLFKPSTGVRAQRA RPILMPAYTRNLHHELEL\ALVI GQ\RCRAVPE\AAAMDYVGG\Y ALCL\DMTAWDVQ\ASARKKG LAWDSGE/DAFTASCPVQRVSL PKEKIPDPSQLKALGFKVNGEL RQEGETSSMIF\SIPIIISYVSKIIT LEEGDIILTGTGPKGVGPKEND EIEAGHTRAGQYDHLKVEKAQ
23420	53788	A	23555	192	436	RTSDHECFREGQICSVCLRERL NLNPPEACLLSQAPCMLFVLQY LNTVIPYEKKASPPSV\EDLQML \TNILFAMKEDNEKVP

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23421	53789	A	23556	94	1252	ARMEAPLVSLDEEFEDLRPSCS EDPEEKPQCFYGS ^{SPH} LEDPSL SELENFSSEIISFKSMEDLVNEF DEKLNVCFRN ^Y NAKTENLAPV KNQLQI ^Q EEEETLQDEEVWDA LTDNYIPSLSEDWRDPNIEALN GNCS ^D TEIHEKEEEE ^E NEKSEN DSG ^I NEEPLLTADQVIEE ^I EEMM QNSPDPEEEEVLEEDGGETSS QADSVLLQEMQALTQTFNNNW SYEGLRHMSGSELTELLDQVEG AIRDFWE\ELVQQLARRDELEF EKEVKNSFF\TVL\IEVQNKQK\E QRELMKKRRKEKGLSLQSSRIE KG ^N QMP\LKRF ^S MEG ^I S ^N ILQSG IRQTFGSSGTDKQYLN ^T V ^I PYEK K\AYPPSVE\DLQMLTNILFA\M KEDNEKVPYFA
23422	53790	A	23557	391	1169	GSFFFFFFK ^Y FAYSPMPKNSKVV KRELDDDVTESVKD ^L LSNEDA ADDAFKTSELIVDGQEEKD ^T DV EGK\SEVEDERPAWNSKLQYIL AQVGFSVGLGNVWRFPYLCQK NGGVVEPECEQSSATTYYWYR EALN ^I SSS ^I SES ^G GLNW ^K MTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLALQE ^W Q ^T FSP ^I RG ^S GNGH ^L TGSGAQR ^T PCRI RRGGSQLRVCDGGKQQWWT ^V S ^Q SSARAITNTDQKVQLQD ^L IE
23423	53791	A	23558	321	568	CLWCGASWP ^R RHSSPGR ^P AGD HRGDRP/EGPDTQGPG ^R PEP ^S TE PAFNPQSSL ^D QGGGPAAPAVD DDTRRGHGGVCGDGGAGEA
23424	53792	A	23559	510	690	LRSPQ\RGVAAPPFLGSPV ^P F ^G FRVQGGMAGQPSAPPALQTDD PYSKAHSVTPKSTPRVT
23425	53793	A	23560	25	480	
23426	53794	A	23561	84	292	VRAVQSLHFHFPWRR/ISCPSES TRSIHVDR ^L PRRNSASLSLSA ^F P VSAGALINGEAWVRMGQV ^{PIP} KAP

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23427	53795	A	23562	1138	1924	CRSSATWTPWTTGCRGDLTK TYSLEAYDNWFNCLSMVLVATE VCRLLLSPGSAMLRSPATFQVV KKKHRTRMLEFFIDVARECFNI GNFNSMMAIISGMNLSPVARLK KTWSKVKTAKFDVLEHHMDPS SNFCNYRTALQGATQRSQMAN SSREKIVIPVFNLVFKDIYFLPQ NPNSNHLPNNGHINFKKFWEISRQ IHEFMTWTQVECPFEKDKKIP\S YLLTAPHPPTARKLSSSPSFESEG PENHMEKDSWKTLLRTLLNRA
23428	53796	A	23563	3	260	
23429	53797	A	23564	1	1386	
23430	53798	A	23565	137	611	MKVNLGDSQNLACVFCRKHD DCPNKYGEKKTKEKWNLTVH YYCLLMSSGIWQRGKEEEGVY GFLIEDIRKEVNRA SKLKCCVC KKNGAFIGCVAPRCKRSY\HFP CGLQRECIFQFTGNFASFCWDH RPVQITSNNYRESLPWHHLLG NLFEPIPSY
23431	53799	A	23566	181	486	DPQGEAKGAAPAEAGGGGPV*W NIGLQGPAGVPGRDGSPGANGI PGTPGIPGRDGFKGEKGECLRE SFEESWTPNYKQCSWSSLNYGI DLGKIAECTFTKMR S
23432	53800	A	23567	600	888	QYNGMCSPGPAGVPGR\EGSPG ANGIPGTPGPGRDGFKGEKGE CLRESFEESWTPNYKQCSWSSL NYGIDLGKIAGRNCWHILAPVP NIVSLYFGS
23433	53801	A	23568	91	1170	ISLHRRPGPTCSMESPASSQPAS MPQSKGKSKRKDKLRLRISCMSP PAPNPTPPRNLD SRTFITIGDRN FEVEADDLVTISELGRGAYGVV EKVRHAQSTIMAVKRIRATV NSQEQQKRLMDLDINMRTVDC FYTVTFYGALFREGDVWICME LMDTSLDKFYRKVLDKNMTIP EDILGEIAVSIVRALEHLHSKLS VIHRDVKPSNVLINKEGHVKM CDFGISGYLVDSVAKTINAGCK VKHGHESLN\PDLNRKGCDVKS HIVWSL GITMIEMAFLRFPYESW GTPFQQLKQVVEHPSPQLPAGR FSPEFV DFTAQCLRKNPAERMS YLELMEHPFFTLHKT KETDIA\A FVKEILGEDS
23434	53802	B	23569	111	193	

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23435	53803	A	23570	312	696	RP*SAHPEPGDCPSPPHPPRCGG VAQTAQVPDAPAPV*AGQHSR SYMEDHLKNKNRLEKEWEALC AYQAEPNSSFVAQREENVPKN RSLAVLTSQPTRNQCLPFLQHG PGDICTPVSIIIVLCHRV
23436	53804	A	23571	1	2974	QAAGMGPPLPLLLLLLPPR VLPAAPSSVPRGRQLPGLGCL LEEGLCGASEACVNDGVFGRC QKVPAMDFYRYEVSPVALQRL RVALQKLSGTGFTWQDDYTQY VMDQELADLPKTYLRRPEASSP ARPSKHSVGSGERRYSREGGAAL ANALRRHLPFLEALSQAPASDV LARTHTAQDRPPAEGDDRFSES ILTYVAHTSALTYPPGPRQLH EDLLPRTLGQLQPDELSPKVDS GVDRHHLMAALSAAYAA
23437	53805	A	23572	1	3202	ASRRLPRGHGLSAAGQAAAGMG PPLPLLLLLLPPRVLPAAPSS VPRGRQLPGLGCLLEEGLCGA SEACVNDGVFGRCQKVPAMDF YRYEVSPVALQRLRVALQKLS GTGFTWQDDYTQYVMDQELA DLPKTYLRRPEASSPARPSKHS VGSGERRYSREGGAALANALRR HLPFLEALSQAPASDVLARTHT AQDRPPAEGDDRFSESILTYVA HTSALTYPPGSRTQLREDLLPR TLGQLQPDELSPKVDSG

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23438	53806	A	23573	1	1459	MPLTSQDV DQKTA AWVPTN RD STVPSDPW DCKRRP WPLL VLR P LAPG TKA PPGG QNGR GRQK GS PCS RRL LLEPAGPLGP ASVRCIR TTTPQ LLI ITSLR FPSLE AAVG Y GSNT C IFANAC QMV FIMITW PY LQ CIP YSV LLKD LEMR NLRE LE DL II EAVY TD II QGK LDQR NQ LL EV DFCI G RDIR KK D INNIV KTL H EW C DGCE A\ ALLGIE Q QV L RAN Q YKEN HNR / TLQQ QV EAED VY I LPQSG NDCR GLRF VSS LIGG VR CVHL KHKG DAVV WE AIE EGEA LPGK YRLKG GR SVW AAVRA VCMD QVT NIK TLK ATASSA QEME QQLA ERE C PPHAE QR QP TKKMS KVKG LVSS SPLGP AGA AGTHQ AWV RWGG DT KGPF PPL STCSE F QT C PSHQ RLP TL VLF QKNC YSPS PTPS F PSCS LQT QGL HQCH PKT GSD TA QLP SRR FLS L CKGL VSLP VFL LPRH FVRL VIK
23439	53807	A	23574	2	396	
23440	53808	A	23575	1	1014	
23441	53809	A	23576	110	212	
23442	53810	A	23577	1	747	
23443	53811	A	23578	323	495	GRAG K WHT QP E*SLRK AM*MF QILMMK MIV ALA R AT SGTE AV AGR SWA SGL RR SGR V
23444	53812	A	23579	26	229	
23445	53813	A	23580	1	574	
23446	53814	A	23581	889	1189	
23447	53815	A	23582	170	625	GAAVALVR P N GGT AASHVV CR EMRPLRPLQSRRCSRRRTGISN MRALE NDFF N SPPR KTV RFG GT VTEV LLYK KGET ND FELL KN QLLD PDIK DD\QI IN W\ LLEFR SS V M YLTK\DFE\Q L I SII LRL P\WL NRSQ\TV VEE YLAFLG N LVSA
23448	53816	A	23583	166	455	RWKPSGTW PRNP MER PGH*ES VPKPGD*AKKSGGET\RGRKEG NEHRETFSQIPDCHLNKKSQTG VKPC KCSV CGK VFLR HSFL DRH MRAHAGHKRS
23449	53817	A	23584	3	3706	

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23450	53818	A	23585	1	1970	MVTDRKAAAGTHGEARPCWG SGSRVHTYRGAGERAMRVHRP MPREDSERVREADGGKHEQRS FGDLHPTAAPAPAASCGTQPG RVKQPGEWQHREAPQQRQPPV RPHGSHQLVTVRYERRPGKE RARLRPGLGCPSGRTPQGRAPQ GTALPTAAAAAIFPSAALTSGQ RNASLPKFYFRGGTWGTSQSEA LCGKLSNQFLGEPLVPRIRLILS CGTCGCSSPRKDGPHEAGNG PSRDFQLPSEERDSVAFEDVA VNFTQEEWALLSPSQKNLYRD VTLETFRNLASVGIQWKDQDIE NLYQNLGIKLRLSVERLCGRKE GNEHRETFSQIPDCHLNKKSQT GVKPKCSVCGKVFLRHSFLDR HMRAHAGHKRSEC CGGEWRETP RKQKQHGKASISPSSGARRVT PTSMR PYETK VCGKA\ FIS\ PIYF QIHQRTPTEKRSYKCREIVRAFT VSSFFRKHGKMH TGEKRYECK YCGKPIDYPSLFQIHVRHTGE KPYKCKQFGKAFISAGYLRTHE IRSHALEKSHQCQECGKKL\CS SSLHRHERTHSGGKLYECQKC AKVFRCP TLQAHERAHTGERP YECNKCGKTNYPSCFRRHKKT HSGEKPYECTRCGKAFGWCSL RRHEMTH TGEKPF DCKQWVKS
23451	53819	A	23586	86	390	LGGDLPWEINPLSSC SLLREKD PPTTSGPQTTS PRNISP ISNPELA THAGNLATGPRNARSPGFLLSR VPSVWDPTENRTVQLTWQPLP ELLELWPKVL
23452	53820	A	23587	1	502	MLLTQSLFGGLFTRTHMKFGA VTQIRGPPLGDKSPVLLFALER QRRHVL SMDPKLRCWSRTGKA AFPWCLIIAEMPDY SPTFQRCQ TTQGRLPW SFTLSSKSRSFSG ARACYKCQKSDHQAKECPQPG IPPKPCPICAGP\ TGNRTVQLTW QPLPEPLELWPKAL
23453	53821	B	23588	1	663	
23454	53822	A	23589	233	496	
23455	53823	A	23590	2	378	ERQRRHVLSMDPKLRCWSRTG KAAPWCLIIAEMPDY SPTFQR CQT TQGRLPW SFTLSSKSRSFSG EGARACYKCQKSDHQAKECPQ PGIPPKPCPICAGP\ TGNRTVQLT WQPLPEPLELWPKAL

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23456	53824	A	23591	3	452	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFPHPNLIS LRPNPLCPHPDLVSLCPDPFPAF LEAHKNFQTPEPQQPGIPPEPPP PGACYKC/HEI*PPGQGMPAQ DSS*AMS/LSVRDPTGNQTVQL TWQPLPEPLELWPKAL
23457	53825	A	23592	1352	1540	
23458	53826	A	23593	177	383	EAMEPWKGVPGLRVNTEQIAP FSEAEGPREIH*GSRKVRKAAQ GLNEGPRELFWQPLPEPLELWP KAL
23459	53827	A	23594	1478	1744	
23460	53828	A	23595	23	178	SCLEVCDDEQGPEK\TRQRALRG VSSVTEDTLNICRLCWQPLPEPL ELWPKAL
23461	53829	A	23596	1	282	
23462	53830	A	23597	34	241	SGDLPWEINPPSSCSLLREKDPP MTSGPQTSPRNISPISNPDPTG NRTVQLTWQPLPEPLELLPKAL
23463	53831	A	23598	121	286	AASFYSSPTSLTIPQPLSPFNLGV TLQSLPSLNFSFLFWQPLPEPL ELWPKAL
23464	53832	A	23599	144	488	GYEIWCRDSDQGTFPWEINPPS SCSLLREKDPPTTSGPQT\TRPR NISPISNLVSGLFLLSSPPSLTIPQ PLSPFNLGATLQSLPSLNFSFH FLVETKETRFIRGAKIPAPVTD
23465	53833	A	23600	471	677	
23466	53834	B	23601	67	555	
23467	53835	A	23602	1	1440	
23468	53836	A	23603	860	1209	IPGNCRDSSGVGIKERETNAGS QHMH/IKNSSVHGYPRLCVEDE DAYKKQFSQYIKNSVTPDMME EMYKKAHAAPENPVYEKPK KEVKKKRWNRSKMSLAQKKD WVAQKKASFLRA

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23469	53837	A	23604	1	966	MGFVKVVKNKAYFKRYQVKE RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVTNRD\IICQ IANA\RIEG\DMIVCAPYAHHELP KIWV*RVGLTNYAAA\YCTGLL AGPAGFFHRFGMDQIYE\GQV\E LTGDEYNVESIDGQPGCLHPAY WDARPLPRTYPLAIKVFGCP*R GA\VDGGLVLF\HSTKTIPPGY DS\ESK\EFNAES/IHRKPHPWAQ NVARLHAPTLMEEDEDA/YTK KQFSQYIKNSVTPDMMEEMV/Y RKAHAAIRENP\VYEKKPKKEV\ KRKRWNRPKMSLAQKKDRVA PKKASFLQSSRSGLLESLTPAIFP
23470	53838	A	23605	1	644	ANSSPVNPVVFDFDSIGGQEVG RMKIELFADVVPKTAENFRQFC TGEF/RVSFRCV*LLCLLQRGVL GLQ*GYR*TTCWP*MIAGDSDR RKDGVPIGYKG\STFHRVRIKDF MIQGGDFVNGDGTGVASIYRG PFADENFKLHSAPGLLSMANS GPSTNGCQFFITCSKCDWLDGK HVVFGLIIDGLLVMRKIENVPT GPNNKPPLPVVISQCGEM
23471	53839	A	23606	638	1391	CPAYKGAHGIQCVYCTLPPPLL QTTRVRNNPTLPTSAAGSEPW RLANSSPVNPVVFDFDSIGGQE VGRMKIELFADVVVPNTAENFR QFCTGEFRKDGVPIGYKGSTFH RVIKDFMIQGGDFVNGDGTGV ASIYRGPFADENFKLHSAPGL LSMLTWPGKLTAG\FGFHQANS GPSTNGCQFFITCSKCDWLDGK HVVFGLIIDGLLVMRKIE\GMPC IFQPTWTHFLPVITTACSLGSM LAAERGKTN
23472	53840	A	23607	2	591	ARAEFGTSRVGAMAVANSSPV NP\VVFFDFDSIGGQEVGRCMKIEL FADVVPKTAENFRQFC\TGEFRK DGVPIGYKGSTF\HRVIKG\MI\Q QGGDFV\NGDGTGSRPVFRGP ILQMKIFKL\RHSA\GLLSMAN SGP\STNGC\QFFITC\SKCDW/V WDGKHVVFGK\IIDGLLVMRKI E\NVPTGPNNKP\KLPVVISQCG
23473	53841	A	23608	6	424	

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23474	53842	A	23609	3	470	DAWVSGRLTELPSSCFPPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKKDGKKRKRSRKESYS VYVYKVLKQVH\ PDTGISSKAM GIMNSFVNNDIFE\ RIAGEASRLA HY\ NKRSTITSREIQTAVRLLLPG \ ELCKHA\ SEGTNA\ VTKYTSS
23475	53843	A	23610	93	421	
23476	53844	A	23611	2	1173	DHAAPRRRSRASVATVTRAGR CPTMSVRVARVAWVVRGLGASY RRGASSFPVPPPAGQGVAEPLL DATGAEAEAPWAATERRMPGQ CSVLLFPQGGSQVVGMRGLL NYPRVRELYAAARRVLGYDLL ELSLHGPQETLDRTSQVQSPGT GIPRRVRAHVLHLSPQVIENC/V VS/AGLAFPSFSCALIFPNALL/F WPGLYAVKIRAEAMQEASEAV PSGMLSVLGQPQSKFNFACEA REHCKSLGPVNGQICKGGFLGH CSAETSFLPQALRFLQKNSSKF HFRTRMLPVSGAFHTRLMEP AVEPLTQALKAVDIKKPLVSVY SNVHAHRYRHPGHIHKLLAQHQ LVSPVKWEQTMHAIYERKKGRF GFPQTFEVGPGRQLGAILKSCNMQ
23477	53845	A	23612	187	425	
23478	53846	A	23613	1	1258	MKAYLLLGAAPPLPWFPQAV FRPCPPPAGLWRTAQLVELEHG PVPREDLIPCSRPFISFLGPERV DGLAFPRIQALGIAAARGMEPK GAPGKSDSGNSRSAGGRVLGC QGAALEVECSAGRGGPVRLAV GCVLLRAPERGWRRGEGAARG IPAGRSSESGLALSPQVGVRSDI GINGNIWHPVQTDFSSLKRSQ GLYAVKIRAEAMQEASEAVPS GMLSVLGQPQSKFNFACEARE HCKSLGIENPVCEVSNYLFPDC RVIISGHQEALRFLQKNSSKFHF RRTRMLPVSGAFHTRLMEPAV EPLTQALKAVDIKKPLVSVYSN VHAHRIQGIPGHIHKLLAQQLV SPVKWEQTMHAIYERKKGRF PQTFEVGPGRQLGAILKSCNMQ AWKSYSAVDVLQTLHVDLDP

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23479	53847	A	23614	2	1050	GRCPMSVRVARVAWVRGLG ASYRRGASSFPVPPPGAQGVAE LLRDAYGAEAEAPWAATERM PGQCSVLLFPQGSQVVGMR GLLNYPRVRELYAAARRVLGY DLELSLHGPQETLDRTVHCQP AIFVASLAAVEKLHHLQPSVIE NCVAAAGFSVGEFAALVFAGA MEFAEGILRFLQKNSSKFHRR T\RMPLPVSGAFHTRLMEPAVEP LERKLLKAVDIKKPLVSVYSQR PTRIRLQAFPGNIQQSCLAQQLG LPK*KWEQ\TMHAIYERKKG/R RGFPQTFEVGP\GRQLG\AILKS CNMQAWKSYS\AVDVLQTLEH V\LDLDPQEPPKMTGRGLKNDP LCPPEERL
23480	53848	A	23615	600	905	QAPASGSPWLSGGPQQVEDAG AGYGFAPGQPPPPRPTQPRSAC SRRAAG/TPVPRAPPAPSAG\PK ARAPRSLGCGSLGRFSTGVRPD KCIFFPETENAAGCF
23481	53849	A	23616	390	722	QAPASGSPWLSGGPQQVEDAG AGYGFAPGQPPPPRPTQPRSAC SRRAAG/TPVPRAPPAPSAG\PR AAAPRSLGCGSLGRFSTGVRPD KCIFFPETEMS\LLFRNTVSRCR C
23482	53850	A	23617	1	673	MGQVKGHKLCLDFTLSPDGG AAEGRCLELGWQAKEVEETIE GMLLRLEEFCSLADLIRSDTSQI LEENIPVLKA\KLT\MRGIYAK VDRIKAFVKMVGHVAFLEAN VLQAERDHGAFPQALRRWLGS AGLPSFRNDPTAPLRQVFEASP DPRLARTVTIQTQQPVRVSGPL SGQRKEKSLQKGAQVFQTNVP ETLLEAAISPAPACGGPLTSGD GFRHVRK
23483	53851	A	23618	1	651	
23484	53852	A	23619	195	497	DQFLENTKKCDGLNQLSFDP NNNKPLEFGRARGPLVTEGLIE NGGESSKKRRRTNSSADNSRT LNVDSTAMTLPMSDPTAWATA M\NNFGMAPVRIVGH

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23485	53853	A	23620	241	1823	NDDRAKFTVEDHTMQRDFRW LWVYEIGYAADNSRTLNV DST AMTLPMNSDPTAWATAMNNLG MAPLGIAGQPILPDFDPALGMM TGIPPITPMMPGLGIVPPPPIPDM PVVKEIIHCKSCTLFPNPNLPPP ATRERPPGCKTVFVGGLPENGT EQIIVEVFEQCGEIIAIRSKKNF CHIRFAEEYMVVDKALYLSGNR ELKKFLNKEDNYFRKINLTALY KTVLEERCEKRRGGYRIRLGSS TDKKDTGRLHVDFQAQARDDLY EWECKQRMLAREERHRRMEE ERLRPPSPPPVVHYS DHECSIVA EKLKDDSKFSEAVQTLLTWIER GEVNRRSANNFYSMIQSANSH VRRLVNEKAAHEKDMEEAKEK FKQALSGILIQFEQIVAVYHSAS KQKAWDHFTKAQRKNISVWC KQAEERNIHNDE\LMGIRREEE MEMSDDEIEEMTETKETEESEL KKLEGIVDGSVEVSAEALRKLL NEYERQVKEEKVGYRIWGTI HNKGEGKKEEFAEELEKSSER
23486	53854	A	23621	996	1512	RPVHLASPAKEQQGTRKGRRA PARLPVPTTGRGLEKG PESQAP PSFRQATGRFSRSGSSGGPTPSK NSRDCSHTPQLPTPRGNPYVFP PGHPEPSR PVEMPAPG\EPRT LCRERTRKACPPKPRPPLGLPG DPTGPVTHHAPPV SPTGASGQE RRAE PGAVSYAHASATK
23487	53855	A	23622	293	1140	PRGILHQDKNLVVINK\PYGLPV HGWPWG\QLCITDVLPIAKML HGHKAEPHLCHRLDKETTGV MVLAWDKDMAHQVQELFRTR QVVKKYWAITVHVPMPMSAGVV DIPIVEKEAQGQQQHHKMTLSP SYRMDDGKMKVVRSSRNAQV AVTQYQVLSSTLSSALVELQ GIKHQLRVHLSFGLDCPILGDH KYSDWNR LAPQKLSVGT GLEQSKARYIPLHLHARQLILPA LGSGKEELNLVCKLPRFFVHSL HRLRLEMPNEDQNEAKCL

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23488	53856	A	23623	1	1328	MAVDLGSHTPGSSGVTAATFR GRRLVNTREESVVLGAGGEVL SGVPGTWDALGPGASFGIKGM FPKGTVIMSTSPMCEGPVPRRK PCASSVQQNSRSRKAGRKTP TLAGRHVPVKIKKEAIQQKPLP ASSFSPALTRSGAIFGPCPALTS APVLEYPLQKVNEAFKVFN NRDEESKRQKQAEFRMLTSAIR GPAGPRGHSSTRKPPSNPPPPGA CFKCGNEGHRSRQCPNPGBTTSQ EAEILALTRALTLAAGQQINIYS NSHYVFHVSHSSIWKERGILT AKNTPAINGSLINKLLKAARLP QKVAAIHCRGHQTPDNPILAGN VLADQVAKQVALQPVQQQFLS LSLFSPLYSSEEKEDFRAQNLQ KQGPW/LSQGARLLVPAACAS KVAEAGRKPAGRHVPLKIQKE AIWSSPFSVPMA TRAAASTSPT
23489	53857	A	23624	475	622	IHSKVLFSA SSSC*NTNN SWFR ASIKKNPEKQNKNMQSAIPQHG LWKI
23490	53858	A	23625	17	992	GRGEVLRGRGRGQLDAVLSRE HCGGSRQSEQPWSRRSSSSSSR RRLRSAAEPA MALSMPNLK EEDKEPLIELFVKAGSDGESIGN CPFSQG\LFMILWLKGV\VF SVT TVALKRKPADCQNLVPGT PPP\ LILFSSEVKTDVN KIEEFSEEVL\ CPPKYLKLSPK\HPRSNTAGMDI FAKFSAY\IKNSRPEANEALER GLLKT LQKLDEY\LN SPLP\DEI DENSMEDIKFSTRKFLDGNEMT LADCNLLPKLHIVKV VAKKYR NFDIPKEMTG IWR YLT NAYS RD EFTNTCP SDKEVE\AYSDVAKR LHQVKSRL LKEV SFMSSP

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23491	53859	A	23626	1	1128	MALASGEGLPVALSHGRRGNG QERVPYLKLRDTCA YRVA WRC NRLARAKVKRTSYRSGYGNF EPGV EPDCVLLALGVENDLV RISSKAEKYSLYEFSFPLRVSRE CEECCRKEPWFNPGQKPSVLIT SGQILGQEEQKTLLFPGLL SVF QFNVENSDLRCLSLAENLEISAL LSLSCSSVIRLILINLEV TISPPITI LKHAPPLTSLEASSSSSGIEKKIH NNFRQGPFPSSATRSTFLMNHT SFDSYVVVSNI VPRLNLYPQVL DVLQSLH KIHQLASNAKWTI QG PAKPD LGLELGLHRYPDWEKE ERKKKRKRKS VSP EKSITTHNKP TSSGIFY/RPRRCGCDLGRPPAP GPHPSSPPHSPPQPSRCPPV
23492	53860	A	23627	3	453	SLGKDIRPRSARAACKGVGLWS GCFGKMA GSGV RQVTSTASTF VKPI FSRDMNEAKRRVRELYRA WYREV PNTGER*RLVRPAVLK HSYVANRSF
23493	53861	A	23628	3	695	PYASRRKFRVDPRVRAWSGCF DKMAGSGV RQATS\TASTFVK A HFSVGDMNE\AKREGARVLTAP WYR\EV PNTV RVHQFQLD\TV KMG RDKVREMFMKNAHV\TDP RVVDL\LVIGK\IE\LEETIKVL KQRTHVMRFFH\ETEAPRKDF LSKF\Y\GHDPLKSFGKDAR WILFLGAQIKLTIQWSLCDR IPL MNQFSAASFCLSKWGPWVLHI TCSFPFSWKCGVCC KLD
23494	53862	A	23629	82	441	SLPINPVPTACTLQPAGLLRPPG SDVRTPMLPPSAPSQPSYPTSRP PLWPTWPAGPVFRRSQPLAQPN LPRSYHQQAPGGQTPVALGLE\CP KATNQPFGLQRDPKSPA KV PPFEEFSL
23495	53863	A	23630	3	504	DRSSSSTMSTGGDFGNPLRKFK LVFLGEQSVGKTS LITRFMYDS FDNTYQATIGIDFLSKT MYLED R/TNVNSFQQTTK WIDDVRTER GSDVIIMLVGNKTDLADKRQVS IEEGERAKELNVMFIETS/ AKA GYNVKQLFRRVAA ALPGIMPS VLFQIIPSQALTRYLC

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23496	53864	A	23631	416	1239	GGGRSSSSSTMGGDFGNPLRK FKLVFLGEQSS\GKTSLITRFMY DSFDNTYQATIGIDFLSKTMYL EDRTIRLQLWDTAGQERFRSLIP SY\RDAAA\VVVYDITNVNSFQ ANYKSGIDDVRTERG\SDV\IM LVGNKTDLADKRQVSIEEGERK AK\ELNV\ILMETSAKAG\YNVK QLLSTCKQPALPGMESTQDRSR EDMIDIKLEKPQE\QPVSEGGLF LTNLPCHLQPFFQKLTGFWPPY SFIDCSVNIGLMPFPFSNNVRFI IAACPAWR
23497	53865	A	23632	1	493	PKPATAPPPSL/RARFLCPQRRP ERAR/PRARGASPRPEKTAGAR KRRRGSCERPHPGG/RPPAPG*I SSRPTLGF\WILNFFF\KKLGRI KDVPWQDSTKEHLSVCRGLRG TWSVPSASDPLHPAWRRTCFRV PPTTGAREWWLHLPPP\ALQRPP DSRQCHRIPVC
23498	53866	A	23633	1	560	MESIWAGLWTAQDTTVLADDF EFLWTLKRRPERAR/PRARGAS PRPEKTAGARKRRRGSCERPHP GGLRRLPGARDQRAPP\RS\DA RSPGRLRRLPALLCAGPLSPGRE PRRWEPRAGVARPAGQQWGFF WPGNQQGASICSLILWFLLECG SRSTGGPCSGTELGHFSRERPTV LLSRLGTVKRP
23499	53867	A	23634	32	327	LTQRLFGGLFTRTHMKFGALTR IGDLPWE\INPLSS\CSLLPEKDP PM\TSGPQT\QPK\ELTNFKSAA RRSSRTSSH\RNLLHVLEIWQLD QGMPAARDF
23500	53868	A	23635	2	424	LTPFSDSAHLHPGEINSPVAHTK PVGGLFTRMRVTFGAKTQDRS TP\QETSP\SSPS\PVTSGPQT\NQ PKEHLT\NFKLGKQSFHSS\HASL ATLQSSSLATLQSPCPSNSNSFS SLVETRRRPGAVARLQSQLSGR LRGGRIA
23501	53869	A	23636	31	246	TALLLTQSLFGGLFTRTHMKFG AVTRIG\DL\DPWGINPLSSCSLLR EKDPLTISGPQTHQPKEH\TNF KSGPH

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23502	53870	A	23637	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDLPWEINPLSSCSLL HEKDPPTTSGPQTNQPKKHLTN FKSRKVERTKGLLKTHLTKLSH QLKKAWTILLPLSLLRIQACPR NAT
23503	53871	A	23638	1064	1304	TAMLLTQSLFGGLFTQMCMKF GAVTRIG\ DLPWEINPLSSCSLL HEKDPPTTSGPQTDRPKEHLINF KSGACYTCRKGH
23504	53872	A	23639	539	747	TAMLLTQSLFGGLLTRTRMKF GALTRIG\ DLPWEINPLSSCSLL HEKDPHTPSRKIHIRPQGNHESQ KGL
23505	53873	A	23640	709	950	TALLLTQSLFGGLFTRTHMKFG AVTQIG\ DLPWENQSPVLLCSLL REKDPPTTSGPQTQDQPKHLTN FKSGKWSFHSSPAF
23506	53874	A	23641	1	1257	MGKKVLGIASQLLGAVRCEPD GRVLPEDWPECLSLVTHGTW FTRQGDKNIQMADNSFSDGVPS DFVEAAKNASKTEKLTDQVMQ NPGVLAALQERLDNAPHTPSSY IETLPKAVKRRINALKQIQVRC AHIEAKFYEEVHDLERKYAAL YQPLFDERREFITGDVEPTSDM ESEWHRENEEEKLAGDRKNK VVITEKAAATAEEPNPKGIPEF WFTIFRNVDMLSELVQEYDEPI LKYLQDIKFHFQPNDCFANSVL TKTCKMKSEPDKADPFSAGPE IMDCDGCTIDWKKGKNVTVKT IKKKQKRKGPGTVRTITKQVSN ESFFNFFFNPLKASGDGESLDKD SEF/ASDFEIGHFFRER\ PQAVLY FAGEALKDDDNFDEGEEEEDEL EGDEEGEDEDEVEINPNKEPSQ
23507	53875	A	23642	132	1277	
23508	53876	A	23643	1	515	RVRHRSVVGSTHASAHAYGE GSLRIIPVTRSPVLTMMNHIVQTF SPVNSGQPVNYEMLKEEQEVA MLGAPHNPAPPTSTVVIH\ RSET SVVPDHVV\ WSLFNTVLFMNTCC LGFIAFAYS\ VKS RDRKMGDV TGAQAYASTAKCLNIWALILGI FMTI\ LLIIPVLLVQAQR

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23509	53877	A	23644	243	643	NHTVQT\FFSPVNSGQPPQRMR CIKEEHEVAVAGG\PHNPAPPTS TVIHIRSETSV\DHVVWSRVQ TPSSMNPC\CLGFIAIRLTP*SLR DRKMVGDV\GAQA\YAST\AK CLN\IWAHDSGASVMTILLIVPS
23510	53878	A	23645	3	1498	RCNFLRSSRIRVHPTPAASTMPP KFDPNE\KVVL\RCTGGEVGA TSALAPKIGPLGLSPKKVGDDIA KAMGDWKGLRITVKLT\IQNRQ AQIEVVPSASAMI\KALKEPPRD RKKQKNIKHSGNITFDENGNIC STDMR\HRSLSRELSGTTKEILG TAQSVGCVNDGRH\PHDIIDDIN SENDKQPRKSKMRTSFSPQIPG HEHFHY\LLLQHVHCQLALT RARKEGSSTH\HQKLSTYYFKEG NSKEPKKIQRCRNTEL\KEEGG GGSGKAPGSEIKLESPACSGASL GEMTAWTMGARGLDKRG\SF KGPLPNTCGHF\WEMVWEQKSR GVVMLNRVMEKGSVV\EFVTEL FFYVALPKMF\PVHYIVILLASKL EEVTNF\PPPDLCTPFLQNYLR VAFQE\NSGCTGKTL\VRPYIT TEDVCQICVEKF\VGDP\EEYSL FLFVDET\WQQLAEDTYPQKIK ELHSRPQPHIFHFVYKRIKNDPY GIIFQNGEEDLTTS
23511	53879	A	23646	361	918	GCTGSRGTVPLSALGPQRIGPP GSCLQIKSWNDICQRQPG\DW KG*GFTVKLTHSRTGQAPDCT RVP\VL\PSCP*F\QSPSREPPKRPE KKPEKTFKHQLGIFTFLNEICST LLRQMR\HRSLSPEKLSWNPT* RDSW\GIAQFSGAVNV\DG\RH\P HD\NDDIQQWVLWKCPRQLST KENIFNKGII
23512	53880	A	23647	1	642	

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23513	53881	A	23648	894	2438	VETKRIQPQPPDEDGDHSDKED EQPQVVVLKKGDLSVEEVMKI KAEIKAAKADEEPTPADGRIY\RKPV\KHP SDEKYSGLTASSKK KKPNEDEVYQDSVKNSQKLII NSSLLSFDNEDENDTEKSMENL TGKIRKLQLRIVDPTFLPKLSNK GKDPVAVARLETGKGNKGAFR VLRDISRWATLCTSPQHSSSEA KNIIPYQATQFQNEVHKWYKK KGGLKISKRKALFFLTQDIQKK LQKLALGPNTPTPDILKIASLVF YNQDQEEKERAQQNERQKEKL YWLSYKSASPQVALRILSQET THKDELPTDLPNNPEVQAPGIP GNTIMAMPVAIQLKDPSSYPCR IIKVPEIASWIHRTQVKLWKSPE TSELEPTPSVIEYTREALEDLKF LFKQKDNNSSAKTPGRAYAASPR DWTSIEAELHIFYQWDPNLKG MFKPASLLAKVKQDFPDIHKES PIFRAlFSNITLMGIAPICVTGKT KKRTRQHHTTPKSNLREQASQ GSLNWEQN
23514	53882	A	23649	200	1727	RTATSLDSVLYKSDYMTWKYR VSFFYILSCRLLKK/QCTDNEHV YMELSKKLYKYCPKEWKKEAS KVRQYEVTWVVKRGKDYLK HIPNMHKDQFALTASEAHLKYI KEAVRLDDVAHVYYRLYKDK REIEASLTGLTMRGIQIFQNLD EEKQLLYDFPWTNVGKLVFVG KKFEILPDGLPSARKLIYYTGCP MRSRHLQLLSNSHRLYMNQL PVLRHIRKLEENEKKQYRESYI SDNLDLDMQLEKRSRASGSS AGSMKHKRLSRHSTASHSSHT SGIEADTKPRDTGPEDSYSSSAI HRKLKTCSSMTSHGSSHTSGVE SGGKDRLEEDLQDDEIEMLVD DPRDLEQMNEESLEVSPDMCIY ITEDMLMSRKLNHGSGLIVKEI GSSTSSSETVVKLRGQSTDLSLP QTICRKPKTSTDHSLSLDDIRL YQKDFLRIAGLCQDTAQSYTFG CGHELDEEGLYCNSCLAQQCIN IQDAFPVKRTSKYFSLDLTHDE
23515	53883	A	23650	182	423	RLSIMASSLNEDPEGSRITYVKG DLFACPKTDSLAHCISEDCRM GAGIAVLFKKFGGVQELLNQ HYKEGLRTSQLYG

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23516	53884	A	23651	1	249	
23517	53885	A	23652	435	494	
23518	53886	A	23653	163	578	RVTWLKKHLNSGNSDSVCMAS SLNEDPEGSRITYVKGSILFEGP KTDFLAPCISEDCRMGAGITVVL FKKKF\GGVQELLNQQKKS\GE V\AVLKRRWGRLYIFTWITKRK RAFAQSPLYENLTEFRGQLKS HLSEEWSH
23519	53887	A	23654	1	2238	
23520	53888	A	23655	26	1941	RDAGTKWQRLGHLSCHCRKQA AREIIINMHFQAFWLCLGLLFISI NAEFMDDDVETEDFEENSEEID VNESELSSSEIIYKTPQPIGEVYFA ETFDSGRLAGWVLSKAK\KVD MDEEISIYDGRWEI\ELKENQV PGDRGLVLKSRAKHHAISAVLA KPFIFADKPLIVQYEVNFQDGD CGGAYIKLLADTDDLILENFYD KTSYIIMFGPDKGEDYKLHFIF RHKHPKTGVFEEKHAKPPDVD LKKFFTDRKTHLYTLVMNPDD TFEVLDQTVVNKGSLLEDVV PPIKPPKEIEDPNDKKPEEWDER AKIPDPSAVKPEDWDESEPAQI EDSSVVKPAGWLDEPKFIPDP NAEKPDWDNEDTDGEWEA\PQ ILNPACRIGCGEWKPPMIDNPK YKGVWIPPLVDNPNEYQGIWSPR KIPNPDYFEDDH\PILLTSFSALG LELWSMTSDIYFDNFIIICSEKEV ADHWAADGWRWKIMIANANK PGVLKQLMAAAEGHPWLWLIY LVTAGVPIALITSFCWPTKVKD\W RHSDELYIIPDICIPQTKGVLEQE EKVEKAALEKPMDEEKKQ\N DGEMLEKEEESEPEEKSEEEIEII EGQEESNQSNKSGSEDEMKEA DESTGSGDGPPIKSLRKRRVRKD
23521	53889	A	23656	297	398	
23522	53890	A	23657	286	430	TAGARCSSRTSSPGSCFNCQKS GHWAR\NARSPGFLLSRVPSVN WIHI
23523	53891	A	23658	405	524	ARMSVACLPGLFFICLRGDFKQ NLTAYCWKCYQL*RSLGTHS
23524	53892	A	23659	1	657	
23525	53893	A	23660	22	334	ALKHFCLCSLIFSVTTMKFLAV LVLLGVSIFLVSQAQNP\TTAAPA DTVSSLVLLMMKPLDAETTA AATTATTAAPTTATTAASTTAR KDIPVLPKWVGDLPNR

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23526	53894	A	23661	1	270	
23527	53895	A	23662	1	284	
23528	53896	A	23663	111	281	
23529	53897	A	23664	229	363	
23530	53898	A	23665	250	586	PVRHGAFFQDKSSDKKVQTKG KRGAKGKQA\EVAN\QETKEDL PAENGETKTEESP\ASDEAGEKE CQCLINNHIPCLISGPCLPSCTIQ RNIFINYFVNASNFLVALETFLKK
23531	53899	A	23666	3	478	APAVGLSSSGGGRSGSGKAARF REGCRRAAARMQQAPGTRLPR RHPARAFPAATMPKRKVSSAE GAAKEEPKRRSARLST\KLPAK VIEAKPKAAAKDKSSDKK V\Q TKGKRGAKGKQA\EVANQETK\ EDLP\AENGETERLEEESLLIEA GEKEPKS
23532	53900	A	23667	1	252	
23533	53901	A	23668	328	414	
23534	53902	A	23669	1	3156	
23535	53903	A	23670	1887	2036	
23536	53904	A	23671	3	212	
23537	53905	A	23672	22	539	YEGIVMKPLIIVNPADCIGC\RT CEVACVVAHPSEQELNADVFL PRLKVQPIWTAVSAAR*CCPFSS ENAP\CVGACCPVGA\LT MGEQV VQTN SARCIGCQSCVSACPF GM ITIQSLPGDTRQQIVKCDLCEQR EEGPACVES CPTQALQLLTERK LRRVRQQRIVVSGENPL
23538	53906	A	23673	135	302	PIHMKTRQPRDQFSADCVFLQS TCPVPC*RNRL*TPGGYWRTRR DYLRCDRSVHV
23539	53907	A	23674	175	794	LSTHSQPIADAADPPP HLTGEL LCSAHQADFAVSAE PARPANN NAATTAPVHA VAITPPA YPD CF RTL PKSLSHQDSTQRL YGIARL LLRISTSGPPPSRLKVQRLDSI A PV/MCHQCENAPCVGAC P/VGA LTMGEQVVQTN SARC/IGCQSC VSACPF GM ITI/QSLPGDTRQQI VKCDLCGALRDC VAVLQRNN SRVVL DACTRA
23540	53908	A	23675	2	434	LISLPFP DDSL AHRPPSSAPTEPQ GLFTVAAPTPGAPSPATLAHL LPTPAMYSLLET EKLNPVG TPT QAAGTGGPAAPG/GRKMALEN PKMHNSEISKRLGADWKLLTD AEKRPFIDEAKRLRAVHMKEYP DYKYRPRRKTKTL
23541	53909	A	23676	3	264	

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23542	53910	A	23677	1	2377	MDDTFLNYKYKNKCGPKHIKK KEEEEEDNNNSNDSKNKD ^T LT TGSSGS ^A KIFLMRGGRQ ^L LLP TLSLCLLSVQRSPGSHESGPPQS MNPRLSPQGKYLKNDFLDVIG MCDIACHLVVELLVGNNGNFL AHAFAHVEVVAQQQNQRENAA RPNNGSVMIGQQGASLRTCQSRV LRVARGGPSPNPGESEQGLFTV AAPAPGAPSP ^P ATLAHLLPAPA MYSLLET ^E LPKNPVG ^T PTQAAGT GGPAAPGGAGKSSANAAGGAN SGGGSSGGASGGGGGTD\QDR VKRP\VN ^A FMVWSRGQRRKM APENPKMH ^N SEISKRLGADWK LLTDAEKRP ^F IDEAKRLRAVHM KEYPDYKYRPRRKTKTLLKKD KYSLPSGLLPPGAAAAAAA AAAAAASSPVGVGVQLRTYTH VNGWANGAYSLVQEQLGYAQ PPSMSSPPPPALPPMRYDMA GLQYSPMMP ^P GAQSYMNVA AAAAASGYGGMAPSATAAAA AAYGQQPATAAAAAAAAAM SLGPMGSVVKSEPSSPPA ^I ASH SQRACLGDLRDMISITGRE ^N IV VGDPAACLLPIEMEETFLP ^W PL GFEDRLHLEGPRPVQEIPSFLR ^K VPNCQ ^W LLQ ^L Q ^T PSVEPADPWE NPQAFPPSLQQEQPCLSLIVGIF VEAFGGGRGRWGSKGKKPKRYR TVEWMRIHQPSICCLQETHL ^T R
23543	53911	A	23678	1	399	

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23544	53912	A	23679	3	1216	LGNKRAGLRRADGEAPSALPY CYFLQKDAEAPWLSKPAYDSA ECRHAAEALRAWCLEAASL SHRPGPGRSGLSVSSLRPTRKMA TTFLAHEKIWFDFKFKYDDAERR FYEQMNGPVAGASRQENGA\T VILRDIARARENINHKSAGSSGP\GAS\SGTSGDHGELVVRIASLEV ENQSLRGVVQELQQAIKLEAR LNVLGKELRLAHRGTAPQTQH VSPMR\QVEPPVAKKPATPAEDD EDDDID\LVGRDNE\EEDKEAA QL\REER\LRHYAEKKAQESLP LGGQVPPSLLDVK\WPWDDESDM AQLACVRSIQ/LGTGRSGWAS QMVAVGYGI\RKLIQIQCVCVVEDD KVGTDLLEEEITKFEARARSV DIASFSTRSEALKCVYVAHVRE GPCTRSKDLRPAKKKKKK
23545	53913	A	23680	1	2066	MAAALRAPTVQSAASSRPLPS PPETEGRVKGFLQPGPHCPAQC LCSGDDGSNEDLEQKREVIFPR PHEAPVAEHRQQTVGLRELVAI PKRKEETTAIVQVFVAFEDVAI YFSQEEWELLDEMQRLLYRDV MLENFAVMASLGCWCAGAVDE GTPSAEVSVVEELSQGRTPKAD TSTDKSHPCEICTPVLRDILQMI ELHASPCGQKLYLGGASRDFW MSSNLHQLQKLDNGEKLFKVD GDQASFMMNCRFHVSGKPFTF GEVGRDFSATSGLLQHQVTPTI ERPHSRIRHLRVPTGRKPLKYT ESRKSFREKSVFIQHQRADSGE RPyKCSECAGKSFSQSSGFLRHR KAHGRTRTHECSECAG\KSFSRK THLTQHQRVHTGERPYDCSEC GKSFRQVSVLIQHQRVHTGERP YECSECAGKSFSHSTNLYRHRSA HTSTRPYECSECAGKSFSHSTNLF RHWRVHTGVRPYECSECAGKAF SCNIYLIHHQRFHTGERPYVCSE CGKSFGQKSVLIQHQRVHTGER PYECSECAGKVFSQSSGLFRHRR AHTKTKPYECSECEKSFSCKTD LIRHQTVHTGERPYECSCVCGKS FIRKTHLIRHQTVHTNERPYEC DECAGKSYSQSSALLQHRRVHT GERPYECRECGKSFRKNHLIQ HKTVHTGERPYECSECAGKSFSQ

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23546	53914	A	23681	1	468	MAAQVGAVRVVRAVAAHEEP DKEGKEKPHAGVSPRGVKRQR RSSSGGSQEKRGRPSQEPLAPP HRRRSQPPTSAAAANNDM/PAP TVPGPVEPLLPPPPPSLAPAG PADDALPAPSTSGLFTSPLTA SAAGPKHKGTQGAAQAPSPPRPRW
23547	53915	A	23682	950	1326	RPESQRANGVDSGPNLKTVQP DTRKGSVLKWISKRGKPLAVEI EESHCL\CLPLRTECLGIKP\IVH LFSCTRPVIVPSLELNYDVDSIA HMFVADLLLMITLPSYDIPFYC LVFQNLLVLEFQYL
23548	53916	A	23683	271	918	NQGLRDLGLCRLCLVNKMFTSS ILGKGHRHSLVSIKQEHSALRK AAG\PLPLKVGYC\QGFSPCDSL KYG\SWDEKDLTVPQPDTHKGS VLRWISKRGKPLAVEIEEG\HCL PELPPGELECPG/ILKHGLYHWS SSEMGE\NRPVMVG\ARHVYSNA ALLFTTALRIFGQRRNINLGLRA HPG\IVPPLENYDIDSSAHM/FF LADLLIITLPSYYIPFC
23549	53917	A	23684	1	942	
23550	53918	A	23685	346	1753	TWIPLSRTGRRFPVFSCSSSRVV AAISFHKRWKEGRCFGRTGE MGWEGRSRSNLKELNTRNDWNP GERELDFWRKITRFKEAASWTL EALEEAGSTARRVWLEDGRR TCEILSVLCTSSLSSNCASLC TYKALSTTRLYDSVYWNKKPE RSSSPATEQSWTENDFDKLREE GFRRI\NYSELKEEARTHGKEVI NLEKK\LDERLTRITNAEKS LKDLMELKTMARELRDECTSFSSQF DPLEERVSVMEDQMNE M\QE EKFREKRIKRN/EKQSLQE IWDY VKRPNLHIGVPESDRENGT KL ENTLQEIIQENFPNLARQANI QI QEIQRTPQRYSSRGATPRH IIIVR FTKVEMKEKMLRAAREK GRVT HKGKPIRLTADLLAETLQAR RE WGP IFN ILKEKNFQP RIAYPAKL SFISEGEI QYFADKQMLRDFV TT RP ALKE LLKEAL NMERN NWYQ PLQKHAKW
23551	53919	A	23686	73	327	GALQPTAALWEPLSGLAKAAA RSLSLQGGVEGDARAGTGAAR GACGPAGVPGGRGLGGPALGA AGRPGP*LPSRGAGLGTAA RHA

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23552	53920	A	23687	322	402	DQEPTNSGHIGNLEQCLGHGYQ R*LFP
23553	53921	B	23688	545	3063	
23554	53922	A	23689	1	579	MKHEKRDRC AELTA ILLNEQAS PMCTIVLGYTGTSTITL PRTSCH FAPRLSNSQHQSSYQVGHKPES YCVRNWWV LGLTDFKNEAAD PHNSGGQLASP GSRTGAAGG\VP A PAPCARTPQPLG GRWDW AP\GTGGGIRRGSGCTGTHGG GGRLRHGG LQSGGLPRGKA AK ARREI ESSAGYSN SSSKCSII
23555	53923	A	23690	399	592	KCIHFPGPTPKFVCGVIVVTA VP /TFGM*TVYV**LPFSILAQN VG *RDDCDPGWKLNLFYAKKKK
23556	53924	A	23691	3	268	DRV/RPLRKNFQRNDQTA AFTV HENPLLCSYRCWYPGKQE QKK IKPQRGGKNRAEKLET LKS RAP LLFQRNAVPHQQRN KAGWRM TLTS
23557	53925	A	23692	29	484	CSFFLVSMVFTFWHDFAAGTS CSFPCLVLSFRSSFRAGL VVTKS LSICLSVKYFISSSLMK LSLAGY EIVG*KFFSLRMLNIGPHSLLAC RVSAERSAVSLMGFSLRVTRPF SLAALNIFS FISTLVNL TIMCLG VALLEYKYL CGILCVS

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23558	53926	A	23693	182	2076	MQEWLRLTARKTELSRDSRSC GQLKTSLLISLLVESTQGRH*SF L/VWTQTHSGGDGWRVAKAW RPKYHDTQLGGEKEEPQGHHA SDCRWRAQPHCRTLSAAVNVN AGFTVTFELRCLTLMKMREKD HHLCDNDIVLFPPDTAFPLDCL LSCIHSTVHGLLRWNAIQYLAS RSESHPERSEGGTPDRNGHPAL SLASFNGAQQDQRRTVQSLGEKP GLPEEMAAMAGTEKEQNELG IEFFQLIIPASKRTHSENALFSHS GDDTECSRSGQGSPPSYSRGPP RRTFILATQPLCSKEAQTSPHEQ PTRTEKNRGSHLYHKSPCDHAS PGMSVTMSGMQQALPRQLTTL TFYPPAFRSIKIFRIMILKTEMLH THARSQEALLKDSSKTMHLHSTL PSCVRKSNYHHRERKIKTKEAF PAKIHSRNQGMKVEVAPLTIT SSDPLAEFLLPVTVTLCSASLEV LAPEGGMLSPGDATMIPLNWK LTLPPGHSGLLLPLSQVKKRV PVLVGVIDLDYQDEIDYYSSMK ERSSSPATEQSWMENDFDELRE EGFRRSNYSELREEIQTGKEV ENFEKNLEECITRITNTKCLKE LMEALKVRELREECRSLRSRC DQLEERVSAMEDEMDEM
23559	53927	A	23694	933	1118	RVERRRLQTIKLLRATGGNSNQ RQRS*KL*KKFRRMYN*NNQY REVLKGADGAESQGSRTT
23560	53928	A	23695	2	250	WCHTKLDGLSLFGESVALEEA GGQTALWLMRFLSRKANYVD KITTREVGHRE*LMSSRLHSR* WAASSVCSSCVLLPSSHS
23561	53929	A	23696	1017	1230	
23562	53930	B	23697	62	1069	
23563	53931	A	23698	216	582	ILVPTLFWLGEFLLRDPLLV*W ASI*G*PD/AFSLAALNIFSFISTL/ RESDNYVWSCSSRGVSL*RSL YFLNLNVGLPCQIGEVLLDNIL QSVFQLGSILPVTFGYTNQMQI WFHFIHFIFHH
23564	53932	A	23699	434	681	TLACLARLGKFSWIISCRVFSNL VPFSLSLSGTPIRRRLFGLFT*SHI SWRLCSFLFILFSLNFPNSRFISFV SSSITDTLSSS

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23565	53933	A	23700	290	1231	RSFRAIGEVGSIRGWGGGYAAQ LQSPSRLPVLGGSKKGGSRGV GQGSSRAEVGLGSQRERSGTCG AEEEEEEAQLIAGTGSSLPYQG PGQNQTAIAPTCAPLSPCKAAA VIMGNIFGNLLKSLIGKKEMRIL MVGLDAAGKTTILYKLKLGEIV TTIPTIGFNVETVEYKNISFTVW GCGVARDK\ RPL\ WRH\ YFQN\ T QGFDILWSDSN\ DR\ ERVNEA\ R EEL\ MKNAGAETSLRDAVLPFL\ FGNKTDLRNAMNAAG\ QDKL G\ LHSRHRN\ WY\ QATCATRG N\ GLYEGLHWLANSVPKQEVE S\ RTALT\ KHPNRP
23566	53934	C	23701	164	208	
23567	53935	C	23702	1	381	
23568	53936	C	23703	43	276	
23569	53937	C	23704	1	462	
23570	53938	C	23705	38	121	
23571	53939	A	23706	77	202	QKNYTQRPLPLHGLLELEVTCR CWSWQPLLEPLELRP\ RLSD
23572	53940	A	23707	123	209	
23573	53941	C	23708	1	411	
23574	53942	A	23709	1400	1809	SSNPLSRPPLPTPVTPCPLLRLSL LRACCCCLFLPLRFFSCPLLCFL LCFFFSCVSPAHKNFKMPKPQW SGIPTGPPPSGSCFKCQKSGHW A\RNACSPGFLLSHVPSVWDPT GNQTVQLAWQPLLEPLEL*P\ R LSD
23575	53943	B	23710	76	358	
23576	53944	B	23711	1	606	
23577	53945	C	23712	272	388	
23578	53946	A	23713	1	259	PGVRGAQGGPSIPRQCEESAIGP KFAWISSFHWKQGMFNMEAP SSLFFVNMCNAVKKQT\ TWGRPD RGFIWQPLPEPLEL*P\ RLSD
23579	53947	A	23714	684	917	GDFGLRQWGFLNIQSCHLQTGT I*PLFLIEYPLFLSPA*LPWPELP TLCCIGVVREGISVLCQFSKGM LPVFAHSV
23580	53948	A	23715	618	683	
23581	53949	A	23716	306	710	DRVSLLTPRLGVQWPDPGSLQP RPPGFKRFYCLSLPSS*DYRHEP LLPAYFFPYRIIGWSRL
23582	53950	A	23717	2	88	

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23583	53951	A	23718	972	1967	FPPGRGRGPGPAGCSRGRARA CPKPVDHVKRPMNAFMVWSR AQRRKMAQENP\QMHNSEISKR LGAEWKLLTESEKRPF\IDEAKR LRAMHMKEHPDYKYRPRRKPK TLLKKDKF AFPV PYGLGGVAD AEHPALKAGAGLHAGAGGGLV PESLLANPEKAAAAAAAAR VFFPQSAAAAAAAAAAAGS PYSLLDLGSKMAEISSSSGLPV LNMPNMHINSLGKNLALNLFV YNDANSMLDLCYDGVDGKGPI CFCATQGYEDIFKAGYGSVVD YYNDGSDLTTPLEIATVIPTFSN HPLMSQRPSTWRQNPLAKRLP LTEDSDGDDH
23584	53952	A	23719	2	144	RPQRRP/LPPPTGSPLKHPGGAS GAAGAPIGE PQHPGA VVSRA WSLCS
23585	53953	A	23720	219	897	PGRAGGTGLGSRRDGTRKG VEETPHRLHARTDTTAPGCCGS PIGAPAAPEAPPGC FEGVPRWVE GVKKASPPLPAELIGWL VN FPL ARPVRPPSLSPGPPRRPPEGVCG SWPGRSEGERGKAKNTAESTPR QNLHRKYTIIVTHYQRNRKGQ NISFLVCEFHPSLADWTTVTA LTWTSPKDNSLTEESWLREGN VH RGMDEYVRAQSFLILMTLE NSGGSVVSK

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23598	53966	A	23733	1605	2296	HSIHSSVDHPENRIYRRKIEELS KRFTAIRKTKGDGNCFYRAL\AI PYLESLLGKSREIFKFKERVLQT PNDLLAAGFEEHKFRNFFNALR AGRAQFYSVVELVEKDGSVSSL LKVFNPD\GASDHIVQFLR/LCF TSAFIRNRADFFRHFIGDEEMDIK DFCTHEVEPMATECDHIQMTA U\QALSIALQVEYVD\GWIPALT QHVFLEAATPSVYMLYKTSQY NILYAADKH
23599	53967	A	23734	529	1830	AGYGDRTMLARKSIIPEEYVLA RIAAENLRKPRIRDRLPKARFIA KSGACNLAHKNIREQGRLQDI FTTLVDLKWRHTLVIFTMSFLC SWLLFAIMWWLVAFAHGDIYA YMEKSGMEKSGLESTVCVTNV RSFTSAFLSIEVQVTIGFGGRM MTEECPLAITVLILQNIVGLIINA VMLGCIFMKTAQAHRAETLIF SRHAVIAVRNGKLCFMFRVGD LRKSMIIASAVRIQVVKKTTTPE GEVVPIHQLDIPVDNPIESNNIFL VAPLIICHVIDKRSPLYDISATDL ANQDLEVIVILEGVVETTGITTQ ARTSYIAEEIQWGHFRFVSIYTEE EGVYSVDYSKFGNTVKVAAPR CSARELDEKPLPSLFRPSQKSEL SHQNS\LRKRNS\HRRNNFHRRN N\SIIRNN\SSLMVPKVQFMTPE GNQNTSES
23600	53968	A	23735	968	1243	
23601	53969	A	23736	541	1010	SVTSCLKVTSVCLTSAAASCRH RRSVEEYLVS*KLPM/WSRRRK AAALTES/V/CIVFWLASWMMS RWLHYPDWVTHIAQQVLMNVV SVMQADCRMNLLEIFLRWLMR KIFHNILRHFSQLLNVPITRPF WILRPF
23602	53970	A	23737	766	1910	LLTARLTWWSARLMSYVLLMC *LFPRLLSCLTPPHCSFSICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCRAATSRGSSRVDL TL*KYSLVGPSPVPLVSSV**SDW PLKLLLMTMMS

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23603	53971	A	23738	581	1434	KLPMGVAVVKLLHLPKVIIVFW LASWMMMSRWLHYPDWVTIIAQ QVLMNVVSVMQADCRMNLLEI FLRWLMMRASDICSSIHGD*EPL L/YAVFGKQNTYIRLEPKINVL EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRRA VNYYDIIVMSNSFNGQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQKLRFCRKHLYGKQP RSPVERVWDHGPTRIVGLIISLG PRSHSYRRSDNQTGTTVPLVSS
23604	53972	A	23739	515	774	LFPRLSCLTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIS GTTVPLVSSV*LLVWDHGPTRI VGLIIRLGPRSHSYRRS
23605	53973	A	23740	322	763	CRMC*LFPRLSCLTPPHCSFSI CFVICSRTLILKGSSLMYVFCLP NTAIVMALS PRGWRSKFGMPV EDTSLSTPAAPMVDSLARVGV MARGNAITLPVCGRDVKSTLE VLRGDSVEKTSRVWSGNERDQ ELLTEDALDDL
23606	53974	A	23741	1	127	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPEARKITRRWRIG EAADLGVVSSQAIRDAEK*RRL SPLHSLMMTARKRGK*PGAGE
23607	53975	A	23742	9	437	WLGLGNWKERLGTQTRMIWS QKTARRLCRTFSGIPAYSMCI/CI GMAERMWCDRNRERHTVSSSG GNRLPNPDWAPGPPRIVGLNIS LGPTVTRIVGLIISLGPRSHSYR RSDNQTGTTVTRIVGLILVLGP WSHSYRRSDY
23608	53976	A	23743	766	767	LLTARLTWVSARLMSYVLLMC *LFPRLSCLTPPHCSFSICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCRAATSRGSSRVDL TL*KYSLVGPSPVPLVSSV**SDW PLKLLLMTMMS
23609	53977	A	23744	573	1085	VCHQILTHLPALLSGARMMWD QLWRGRP*RRCQQPQCGG*WH CFWATAHHSPLDSTLNHLHCLP RGP
23610	53978	A	23745	2	379	WLTRSSCSWRLPPRRKKKGAL V*PVWLPPGVAVLLQLGCCV LQDVSKRLCYNRKGQSEIVL MS*ITMWKLFPRPPLLFPSTCIC *KTCGKGRGRSK*KVDILVLSIRF SAIKLEPLDCHENAWL

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23611	53979	A	23746	575	576	TGIDSDQLNGRDWRRALSVSPA PDSGFPRCNGDEQAGI*LLGTG WAEKCHRLAFPPAGSTAGR
23612	53980	A	23747	1	723	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPPEARAKITRRWRIG EAADLGVVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVCWSWERPPGNSL NVSRMVWDHDPTRVVGLIIGL GPRSHLYCRSDYQQRS\TSVCG CMPAVDCCCVLLIHNILRTVM WTKYLVTQAVPAR*PGCIRCKC
23613	53981	A	23748	1	1101	
23614	53982	A	23749	5	205	YCSSLSFTAITSRAFLPDERRITT PPATSPSPFSSAMPRIISGPIWTF ATSRR*TGTPFSLAFKTM
23615	53983	A	23750	1	761	
23616	53984	B	23751	56	2188	
23617	53985	A	23752	627	1272	
23618	53986	A	23753	448	2218	VRRQRSDPERSDARMVRFCNL YI*RKNPFLH*LFR*TLRQTKPD NSAGKCVKI
23619	53987	A	23754	171	959	AASRGPDAPGLEMAGNCSWEA HPGNRNRKMCPLSEAPELYRR GFLTIEQIAMLPPPAVMNYIFLL LCLCGLVGNGLVLWFFGFSIKR NPFSIYFLHLASADVGYLFASKA LFSILNTGGFMGTFADYIRSVCR VLGLCMLLTG\VLLMPAGWDE RGVRSERAWCTVETGRVHRSR VRVSRNTARDPANGLGHLLQS LGMPALEPGPTLGSALRWEFLQ TASPQLPVQLHPAAATPQRSL RGRGRGPKARALGLGPRSTSRY
23620	53988	A	23755	664	838	
23621	53989	A	23756	2732	3007	
23622	53990	A	23757	1522	1706	CHYFACMWSGCEVYS*SAPG** C*EDLSGLVRCRCLHSNAETPI* FAANADTSPRGPFCLR
23623	53991	A	23758	537	795	ADCPLHMGRPCLID*GCRTE*P RCAVVCLLWIAAVSCLSTT/SLR TGI/DGPKYLVTQAVPARYPGCI RCKCVAVDEASSDMRLPCS
23624	53992	A	23759	2074	2276	
23625	53993	A	23760	36	206	ECWIWCELGAELHHQP*ASSH WKSSYRQQSSLPRCRASQRTLH LLLQGWAVLGPLE
23626	53994	A	23761	444	725	
23627	53995	B	23762	1	1212	

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23628	53996	A	23763	11	972	RFSKSLLDGVQLASPGSRTG ATGGAAHSPARAPALHSPWAV DGTRGRLAGTAGLWSPRPAFH FKVSLSLPFSCVSSPFPGPPLGPS PRKHQMADDAGAGVGRRPR GPRMG/NRGFRRGFGSGIRHQ GCGCGQQGQGRGVRRGKAE YKEWMTVTKLGHVKDIKIS LEIYLFSFFKTSSLKDEVLK1 MLVQKQTHTSQCTRKFATVAT GDYNGHISLGIKCSKEVATAIC GAIILAKLSIVPACRGYWGNKIS KPHTIPCKVAGCCGSVLVCLIS VPRGTGIVLAPCEGDRGLRKSS PASLSPESCKDGSHRSF
23629	53997	A	23764	2	260	LLEECRSLRSRCDQLEERVSAM EDEMNEMK*EGKFREKRISPKR APERSAKHGKEQPVAAKSC QNVNTIETRKKLHQLTSKTS
23630	53998	A	23765	3	1150	
23631	53999	A	23766	1	1521	
23632	54000	A	23767	1	753	
23633	54001	A	23768	1	3351	
23634	54002	A	23769	1	1740	
23635	54003	A	23770	1	1353	
23636	54004	A	23771	1	1932	
23637	54005	A	23772	1	1221	
23638	54006	A	23773	1	1214	MAKKQNRKTGNSKKQRASPPP KECSSSPATEENWTENDFDELR EEGFRQSNYSSELWEDIQTKGKE VENFEKTLEECITRITNTEKCLK ELMELKTKAQLRKECRSLRSR CDQQQERASVLEVLEVLA\QL GRKRK*RVFN*EKRKSNCPCLO TT*LYI*KTPLSQPKISLS**ATS AKSQDTKSMYKNHKHSYTPPT DKQRAKS*VNSHSQQLQRE*NT *ESNLQES*NWISSLHLIQKSIQD GLKT*TLDLKPSKP*KKT*ALPF RT*AWARTSCLKHQKQWQQRT KLTNWI*LN*RASA/PAKESTV/S SEQATYNMGENFHNL1*QRAN IQNLQ*TQTNLQEKNKQPHQKV GEGHQQTLLKRRHLCSQKTHE KMSIITGHQRNANQNHNEIPSH TSYNGNH

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23639	54007	A	23774	1157	2085	QGRPTDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLIAAGTTGPTGKRAVS ATQLMTQFSPAREQSWRKN/DF DELRKE/GFARSNYS\EKCLKEL MELKTKARELREECRSLRSRCD QLEERVSAMEDEMNEMKREG KFREKRKIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQENFPNLARQANVQIQE IQRITSQRYSSRRATPRHIIVRFT KVENKENMLRAAREKGWVTL KGKPIRLTADLVAETLQARRE WGPIFEEP
23640	54008	A	23775	1	1707	
23641	54009	A	23776	1	1899	
23642	54010	A	23777	1	2781	
23643	54011	A	23778	1	831	
23644	54012	A	23779	1	3264	
23645	54013	A	23780	1	882	
23646	54014	A	23781	1	1853	
23647	54015	A	23782	1	550	
23648	54016	A	23783	1	831	
23649	54017	B	23784	64	3436	
23650	54018	A	23785	1	1422	
23651	54019	A	23786	1	773	MGKKQSRKTGNSKKQSATPPP KERSSSPATEQSWTENDFDELR EEGFRRSNYSSELQEETQTKGRE VENFEKNLDECITRTTNTEKCL KELMELKAKAWELEECRSLR SRCNQLEERVSVMEDEMNEMK REGKFREKRKIKRNEQSPQVIRD YVKRPNRLIGVPESDGKNGTK LENTLQDIIQENFPNLARQANIQ IQEIPRTS/QRYSSEEHSIIGLIGR FPS*RTDMFRAPKKREQKRNNR KIQKEEGGRTAPGTI
23652	54020	A	23787	1	2775	
23653	54021	A	23788	1	2712	
23654	54022	A	23789	1	1590	
23655	54023	A	23790	1	547	MGKKQNRKTGNSKKQSASPPP KECSSSPATEQSWTENDFDELR EEGFRRSNYSSELREDIQTKGKE VENFEKNLEECITRTTNTEKCLK ELMELKTKARELREECRSLSSR CNQLEERVPAMEDEMNEMK D/GNRYDDRRQ/RKEEIMIKSW RFCCRHILRVVRGWPBKYLWI TMVVTLAGNPQ
23656	54024	A	23791	1	710	

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23657	54025	A	23792	1	895	
23658	54026	A	23793	1	1938	
23659	54027	A	23794	1	1413	
23660	54028	A	23795	985	1219	LCSGSVERCTESYLYHSSHCLVQ QAGVTGDEGGSCY*DPPSHHRS HPRKLKLCEQEFSVTSAPWRK CRSLHGRFPGLP
23661	54029	A	23796	1	3570	
23662	54030	A	23797	1	634	
23663	54031	A	23798	1	4551	
23664	54032	A	23799	1	4721	MHPSQRTPYQSRSPATIFATVST FKSHKSNLETKHPQQVPLSSLG LAANISSEDIESEAEDNGKWES VDRTSFFPALTSFQQSMIHKKI MTVFKSVEPEDGLGRPTLAFHE DRCQLSIQNSLDAGGGCPSMA APPAEVHELASGLISAAALLLSP AASGRVSKHQHPIPTGFPDPPKA LHKGKLTRKDIYTNPSVHHH HQRPKVDKTTKMGKKQNRKT GNSKTQSASPPPKECSSSPATEQ SWMENDFDELREE

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23665	54033	A	23800	1	2152	MDILGWASRAHKWKGRATGT HVFNLMRREYLISLQCCASEQAA SPEHGASFRVWKSLGFQKLILS LICPQCLQSLTRETWMRFKSKK TKGPDLRLVMDANKWEFRRH ALRPALTFPNEGGDLGVEALPV ALPPEAHVGGVVLPAALVRGA HGEQLPAIPGPEEFALPAVQAR AARPERQVVVIVVNEAGVDPA GVEGLAPVPVLPGVRLEATAPK QPPRLPARLRAPLPSGRKLNAK CPRLRWGFFVQDGDGTTELACL SEGDGGCCQEAPLDHRPRLRG LAGSAGAREAREPRLRPGDWG NRIARVRAPEEAAAALSRPARV AAALAKTHRREHRARSQKLVM SSVQQGKLTRKDIYTENPSVH HHHQRPKVDKTTKMGKKQNR KTGNSKKQSAFPPPKECSSPA MEQTWT\DNDFDELREEGFRGS NYSELREDIQTGKEVENFEKD LEECITRITNTEKCLKERMELKT KARELREECRSLRSRCDQLEER VSAMEDEMNEMKREGKFREK RIKRNEQSLQEIWDYVKRPNLR LIGVPESDVENGTKLENTLQDII QENFPNLARQANVQIQEIERMP QRYSRRATPRHIIVRFTKVEM KEKMLRAAREKGRVTLKGKPI RLTAVLSAETLQARREWGPIFN ILKEKNFQPRISYPAKLSFISEGE IKYFIEKQMLRDFVTTRPALKE
23666	54034	A	23801	1	2109	

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23667	54035	A	23802	1	2544	MSVHSWKPSWIRPIRSLSPKRPL GTQGTSEVPPDTHICQTKFHSL SGPLLLSVHPVGKLSAVVGRVF IHILSQRERRRRRVISAFPSEVPG SSHQGVPDSGCRSVGGAHPVREP KQGEALPHSGSPREGKLTNRKD IHTKNPSVHHHHQRPKVDKTT KIGKKQNRKTGNSKTQSASPPP KECSSSPATEQSWMENDFDEL EEGFRQSNYSERKDIQTKGKE VENFEKNLEECKTRITNTEKCL KELMELKTKARELCEECSRSLRS RCNQLEERVSVMEDEMNE REGKFREK\RIKRNEQLQE YVKRPNLRLIGVPESDVENGTK LENTLQDIIQENFPNLARQANV QIQEIQRTPQRYSSRRATPRHII RFTKVEMKEKMLRAAREKDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFFSAPH YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRINKLTQSR STTWKLNNLLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDALKAVCRGKFIALNAHKGK QERSEIDTSQLKELEKQEQT HSKASRRQEITKIRAELEKEIETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREKNQIDTIKNDKG DITTDPTEIQTTIREYYKHYAN KLENLEEMDTFLDTYTLPRLNQ EEVESLNRPITGSEIVAIINSLPT

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23668	54036	A	23803	1	1886	MKENFKHRHVVAFISSQEAQE DSREEEDRLESRFYFLFLLELSY KTTLNREPTVSLNSKGTPMD QNEHSHWGPRAKGQCASRSEL RIILVGKTGTGKSAAGNSILRKQ AFESKLGSQTLTKTCSKSQGSW GNREIVIIDTPDMFSWKDHCEA LYKEVQRCYLLSAPGPHVLLL TQLGRYTSQDQQAAQRVKEIF GEDAMGHTIVLFTHKEDLNGG SLMDYMHDSDNKALSKLVA CGGRICAFNNRAEGSNQDDQV KELMDCIEDLLMEKNGDHYTN GLYSLIQRSKCGPGVGSDERVKE FKQSLIKYMETQRSYTA CLKGALIKTQLPKVDKTTKIGK KQSRKTGNSKKQSTSPPP SSPAMEQSWTENDFDELREEGF RRSHYSEL PEDIQTEGREVENFE KSLEECITRITHTEKCL KELMEL KTKARELREECRSLRSQCDQLE EV VSAMEDEMNE MKREGKF KE K'R IKRNE QLQE I WDY V KRP N LRLIGV PESDA ENG TK LENTLQ DRIQEN FPN LAR QANG FCR FRN HHQTGF SPAGAN QRG PLA ATLS GPG GEG QSA VAR LTGE KKN HP GAQYAN RLSP RVGR FIN RSWH DRFP DWK AGT GLK SAIF AWE
23669	54037	A	23804	1	4134	
23670	54038	A	23805	1815	1849	

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23671	54039	A	23806	1	4016	MGKKQNRKTGNS\KTQSAFP\P PKECSSSPATEQSWMENDFDKL REEGFRRSNYSELR\EDIQTKGK EVENFEK\NLEECIT\RITNTEKC LKELMELKTGSRNYVKECR\S LRSRCDQLEERVSAMEDEMNE MK*EGKFREKRIKRNEQSLQEI W\DYVK\RPNLRPIGVSESDGEN GTKLENTLQDIIPENFPNLARQA NVQIQEIQRTPQRYSSRRATPRH ILVRFTKVEMKEKMLRAAREK GQVTLKGKPIRLTADLSAETLQ ARREWGPINILKEKNFQPRISY PAKLSFISEGEIKYFIDKQMLRD FVTRPALKELLKESLNMERNN WTSKQIIQEDGYSEEEGWL CRA VIYSHTLQAIMAIVKATGNLQT DFANPFHTDDARQQFAMS YTV VGQQGALPEDLSRCHLQTEAVQ RHPESLGCP LDLLHGMPVSSCF GYPQDTSSTV
23672	54040	A	23807	2059	3153	
23673	54041	A	23808	6	188	
23674	54042	A	23809	3	1014	VACRPLPRRAQPATFIPRVAV KMALVASVRVPARVLLRAGAR LPGAAFGRTERAAGGGDGA\RP \FGSQRVLVEPDAGAGVAVMK FKNPPVNSLSLEFLTELVIS\LEK LENDKSFRDVILTS\RPGVFS A GLD\TEMCG\RS PAHYAWVLE RPVQELWLR LYQSQLV LVAI NGA\CPAGG\CLVALTCDYTIL AGNPRY CIGLNE\TQ\GIIAPF WLKDNPWRTPIGHRAAES A\LQ LGLPLPPP AEALQVGIVDQ\VV P \EEQVQSTALSAIAQWMAIPKP MAHK\LT KAIMRK GQGPPA WS RKGYADVQNF\VS FISKDSIQKS LQMYLERLKEEKG

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23675	54043	A	23810	1	2665	MTTSIRQFTSSSIKGSSGLGGG SSRTSCQLSGGLGAGSCRPGSA GGLGSALGGSSYSSCYSFGSGG GYGSSSFEGVDGLLVGGEKAT MQNLNDRLASYLDKVRALEEA DTELEVKIRDWYQRQAPGPAR DYSQYYRIEELQNKPSSDDLT TLPSPILTATVDNANILLQNDN AHLAAADFRTKFETEQALCLSV EADINGPCRVLDETLARADPE MHIENLKEELAYLKKNHEEMN APRGQVGGEINVEMGAAPGVD LSRILNEMREQYEKMAEKNRK DAEDWFFSKTEELNREVATNSE LVQSGKSEISELRCTMQALEIEL QSQLSMKASLEGNLAEHENRY CMQLSQIQGLIGSVEERLAQLL CEMEQQNQEYKILLDMKMRLE LEITTYHRLLEGEDAQTVQHTP GSPCVPEWAHDRCSPALPAQLDE WSCQAQRGICGHRRENCWERIP SQSCFYRPTARSLLGTMST CSHQFTSSRSRMKGSCSIGGSIGG GSSRISSVLAGGSCHAPSTYGG ASCGLGGGYGGGFASGG FGGGYGGGLGAGFGGGLGAGL GGGFAGGDGLVGSEKVTMQH LGDRLASYLDKVRALEEANAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIATIENAQPIL QIDNARLAADDFRNTYEHELAL QQTVEAGVNGLCREMLALRGQ
23676	54044	A	23811	222	548	TLPCCGDHHHSQDPARLPSWHD LLQERSEKCGSQDWQRDSVQP GVSYQFCCVPWPAGRSPQPRH CWGCCGTEASYDSGI*SLSTPG GGQLQGSV*GPDGAGLQNSHR
23677	54045	A	23812	2	165	
23678	54046	A	23813	1	665	
23679	54047	B	23814	1	1673	

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23680	54048	A	23815	1	331	ARQLRTSAMTMPVNGAHKDA DLWSSHDKMLAQPLKDSDVEV YNIKKESNRQRVGLELIASENF ASRAVLEALGSCLNNKYSEGYP GQRYYGGTEFIDELETLCQKRA LQAYKLDPCWGVNVQPYSGS PANFAVYTALVEPHGRIMGLDL PDGGHLTHGFMTDKKKISATSI FFESMPYKVNPDTGYINYDQLE ENARLFHPKLIAGTSCYSRNLE YARLRKIADENGAYLMADMA HISGLVAAGVVPSFEHCHVVT TTTHKTLRGCRAGMIFYRKGV KSVDPKTGKEILYNLESLINSAV FPGLQGGPHNHAIAGVAVALK QAMTLEFKVYQHQVVANCRA LSEALTELGKIVTGGS/CVISG GAGKPG*FSHQDGTGTSQDGG RRPFLHHTLSY
23681	54049	A	23816	3	1709	SHPTPREPTGVEGQATPSVLG AAPASQAKATPTLGRPHASDR GEVAQLDEWSCQAQRGICGHR RENCWERIPSQSCFYRPTARSLT SLLGTMSTCSHQFTSSRSMKGS CSIGGSIGGGSSRISSVLAGGSC HAPSTY/GGLCVSFSRFSFGGA CGLGGGYGGGFGSSTNFWS\GF GGGYGAGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALEEANAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFRTKYEHEDA LRQTVEADVNGLRRVLDLTL ARTDLEMQIEGLKEELAYLRKN HEEEMLALRGQTGGDVNVEM DAAPGVDSLRLNEMRDQYEQ MAEKNRRDAETWFLSKTEELN KEVASNSELVQSSRSEVTELRR VLQGLEIELQSQLSMKASLENQ L\ETKGRYCMQLSQIQGLIGSV EEQLAQLRCEMEQQSQEYQIL LDVKTRLEQKYCHPTAALLEG EDAHLSSQQASGQSYSSREVFT SSSSSSRQTRPILKEQSSSSFSQ
23682	54050	A	23817	2	365	

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23683	54051	A	23818	1	464	RRWRICSTWTRSFATAWLPPAP SANFPRTDRSQGDRGAPAGFAL APILEFFLWDTSSQKFLQKPHCF MHGRERAKMGRRAQQESAQA ENHLNGKNSSLTLTGETSSAKL PRCR/QGGWAGDSVKASKFRR KASEEIEDFRLRPQSLNGSDYG GDIP
23684	54052	A	23819	384	805	
23685	54053	A	23820	3	392	MKYSAIQTLGEIDLKLLTKVL APEHEVR*VQWWQQFPGLSTL AIPINPAELPGLALCLP*RPWNG REKVSLQLREKALSLSYPAKPF L\EDDVGVWDWDHLFTEVSSEV LTE\WDPLQTEKEDPAGQARHT
23686	54054	A	23821	63	785	GPIRGPWPGFGCGWGGATPPAP TSLRRRLRAAGLAPRRRAKMGR RAQQESAQAENHLNGKNSSLT LTGETSSAKLPRCRQGGWAGD SVKASKFRRKASEEIEDFR\LRP QSLNGSDYGGDIPMPDLEEVQ EEDFVLQV\AAPP\\$I\QIKRVMT YRDL\DN\DL\MKYSAIQTLGE D/IDLKLLTQK/VLAPEHEVRER NPSWQDDVGLGTWGPICSTEV SLRRSFTEWDPLQTEKEDPGG Q\ARHT
23687	54055	A	23822	1	441	MSFNCSTRNCSSRPIGGRCIVPV AQVTTTSTTDADCLGGICLPSSF QTGSWLLDHQCETC/CGCQPLG GISSVCQPVGGISTVCQPVGGV STVCQPACGVSR TYQQSCVSSC RRP\AKCVGASERIKTPRPASCF QDLPACCLSLN SSS
23688	54056	A	23823	1	538	PTRPLQQATCSPLSDIMSFNCST RNCSRPIGGRCIVPVAQVTTTS TTDADCLGGICLPSSFQGTGSWL LDHCQETCCEPTACQPTCYRRT SCVSNPCQVTCSRQTT CISNPCS TPTAGRSP/CVSSGSQPLGGI SS VCQPVGGISTVCQPVGGVSTVC QPACGVSR TYQQSCVSSCRRT C

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23689	54057	A	23824	832	1885	AEWDAADKAHVGPGRSPRQPL PHVGRRRAAHTTGRGRRTAGC APAPARTLCILSILGPWCVLPHL PTLCLGQAQAASCSQGAHGCF AGCSCT/GTSASHPV/CCKCPLH PVCTLADVHGCITSGFSVISLPQ TCAPWTSWRKWSLSDSWQVD ACPESCCPEPCCATSCCAPAPCL TLVCTPVSCVSSPCCQAACEPSP CQSGCTSSCTPSCCQQSSCQPA CCTSSPCQQACCVPVCCPVCC VPVCCPKVCCPKICCPVCSGA SSSCCQQSSRQPACCTTSCCRPS SSVSLLCRPVCRSTCCVPIPSCC APASTCQPSCCRPASCVSLLCRP TCSRLSSACCGLSSGQKSSC
23690	54058	A	23825	1	3097	MDEKRTRLQPEEADVPAYPKV ATVPQSEKKPSKYPLCSADAAT STTPPGSPPPPPPLPEPPVLKVL SLKPAAPSPATAATTAAAATA ASSTASSASKTASPLEHILQTLF GKKKSFDPSAREPPGSTAGLPQ EPKTTAEDGVPAAPLLDPIVQQF GQFSKDKALEEEEDDRPYDPEE EYDPERAFDTQLVERGRRHEVE RAPEAAAAREEEVAYDPEDETI LEAKVTVDLPRNRMCAADVRR NSVERPAEPVA
23691	54059	A	23826	67	442	VKFFCLYLQSNEKPMKNFKQG SNNQLLMRSFWLLCGIDYKKPP PPPAPGPESVAPALSGPPPPAHS RGPRAVVRA\PPPPGPRHRSPA PPPPPGTEPSVATYSIKASKRVS QQDRCHNLMKSQE
23692	54060	A	23827	3	657	GERSRRWGPACGPAAEKTPP CDAGAAAGAAGPAGAPGHAGNPGL GSGPDYD\GEATCMHLHPDDPC PAGAGCCPGSFEVAFPDAAEK MKKSLHSLKKGCYSRVCDLPL DCPGCDSDSGRQAMFSCIvnFQ LPKEESPIPGSSQEESSGPSHSEC DSVGVDWRGQRVSRKLQAPNH SLVLLVTSLFQETTKSHLNRTN DAVSPRKFKRLGALYWGKVEA
23693	54061	A	23828	141	246	
23694	54062	A	23829	1	609	
23695	54063	A	23830	1619	1752	

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23696	54064	A	23831	54	470	CSTMNPSEMQRRIAPPRQRHRS RAPSAHKMNRMVMSEEQMKL PSTKKAEPPTWAQLKLTQLA KKK\LENTKVTQTPENMLAAL KTVSTVSAGVPSSSEESDHRER AMMTTVVLSKRRGKCGEKKEI SDCYCVYVERS
23697	54065	A	23832	213	572	IQWYPYQDTIDFLHRIKRNFFKF HMEPKKSLHCQDNPKPKEQSW MHHTT*LQVMLQGYSNQKRMP PHLGSEERLCPAAPSGR*GAPLP GRCAJFQV*SDSLSAGVPNSSEE TATIENGP
23698	54066	A	23833	296	583	
23699	54067	A	23834	2452	4557	
23700	54068	A	23835	3	266	
23701	54069	A	23836	31	499	ARVTAAVSAAAVAKRVWRDG FDCSGYYSLTILLVQPTKRP\E GRTYADYESVNECMEGVCKM YEEHLK\RMNP\NGPSI/THNTTS QLFDFID\DLADLSCLVYRA\DT QTY\QPYN\KDWIKDEDPTVLLS SGKAQQAREIIIVVGSHWGGWG GAWDTGV
23702	54070	A	23837	3	323	
23703	54071	A	23838	366	892	PCVYSQFPAGEQCLKLHSPA SPPALEASEAQTRKAPEC GSGVPEVAGGSCP CLLCLPRHQAVPTQGP GTYS PCTSHQPHIFPRPAA PHHLGLLQNPHNA ASCIQCLYPAGV ATTM PPRRKAEGDAEGD/K AKVK DEP QRRPAKLS AKPAPP PEAKPK NAPGV TLSLRGTATRF

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23704	54072	A	23839	201	1412	LWKSRLTFKLAMSRVPSPPPA EMSSGP\VAESWCYTQIKVVKF\ SYMWDPSITLAFCREEMG\EV\I KSSTFSSGANDKLKWC\LRVNP KG\I\DEESKDYLVTFTCYLVSC\ PKSEVRANFKFSILNAKGEETK AMESQR\AYRFVQGKDWFCKK FIRRDFLLDEANGL\LP\DDKLTL FCEVSVVQDSVNISGQNTMNM VKVPECRLADELRGLWENS\RF TDCCLCVAGHEFQAHKAILAA RSPVFSAMFEHEMEESKKNPSL KSMDV\EPEVFKE\MMCIFIYTG KAPNLTKMA\NDLLAAADKYA L\ERLKVMCEDALCSNPV/SVEN AAEILIL\ADLH\SA\DQLKTQAV DFINYHA\GDVLETSGWKSML SHP/HNLVAEAYRSLAS\KQCPF LGTPTQNALKQSLKILLCC
23705	54073	A	23840	1	575	FRHRKIIY*NLLQEDSINVTEM TSIRASVDILIPDPPPDKDEMDT DKQEKKKEVPKCGFLPGNEKVL SLLAMVKPEVWTLKEKCIVVIT WIQHILPKIEDGNDFGVAIQEK VLERVNAVTKVEAFQTTIS/K MDYRALVHERDEAAYGELRA MVLDLRAFYAELYHISSNLEKI VNPKGEEKPLMYPTRD
23706	54074	A	23841	1	1092	
23707	54075	A	23842	130	397	EGVHSQVNLFPIKGNQTHVPAS HGTDSALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHISSNLEKIVNPKGEEKPF
23708	54076	A	23843	20	334	VRLPGSTHAGGDRSSMAKPCG VRLSGEARIQVEVLRQNLFQEA \EEFLYRFLPKIIYLNQLLQEDS LNVADLTSLRAPLDMPIPDPPP KDDEMETDEQEKKEGK

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23709	54077	A	23844	1	898	MKQKVAEAGRQILQAKVLP SGTLSRLAEALFGVQTYDQDA YGFLTPSAQSMKVFCCWKLV CKQLEGDVAQGLAIDGDVKKH SGLEWQVETIQNLVDSYMAIV NKNMQDLMPKTIILMINNTKE FIFSELLANLYSRGEQNTLMGE SAEQAQGRNEMRRMHHLRE APSIIGDIKTTIVSTPTGSPKSSPT TQCRLPAVPPARPGRLRSPAPGPL PAASTLGEAPVVPSTPGASPDP GPPP\QVPSRPSRGQPQDRMPC GLAGDLTVGLEPTLQAIIRWS LLLRPPANSPEQS
23710	54078	A	23845	99	429	FSDAAAVARQPSFGKALGAPQP ADTQPTPSMPPRCPGGSETKPK KAAGKDKSSDK\KNKTKQMK AEKGGKEKQAEVADQETKDL AENGDTENKESPASDEATEKDT KSD
23711	54079	A	23846	1	390	TWMFIAAVFRIASTWKQPRYFS VGKQDQKRTSRKLQQTCRGA *WLEGKLTNRKE*HQYQRKGH PRKNTIQRSPTLKTKANILNGQ KLEAFPLKTGTRQRCPLSPLLFN MVLEVLARSIRQEKEIKVFK
23712	54080	A	23847	522	733	ASAADTQANRVWSGPP/RKLQ QTCS*GS*LLQGKLTNRKDIHT KTPSVHHHHQRPKTLNQQRSK ETKKAIT
23713	54081	A	23848	46	330	
23714	54082	A	23849	1	873	MAEKKDPTKEPEKKHLLAWM NKLLYELDPKYKNDNSTDGS VVHKIIIACDKPVSPPPSAMIGSF PRPSSEADAGAMLCVQPARTKI LGILGLKATSLQYRLHTGKPL LPKIDESTKMRNQPKKAENSK NQNASSPPKDHNSSPVREQNR MQNEFDELTEVGFRDRSSKR NSVVIKALPRHLINQGRSQEWR LGIGARDSPKTSGRRGKSPAGP NRTTVPEDA/GSRPRPIPTRQ ADPRTPPPTRSEKE/AQLSLATD QMCPSLAPLIK*PQES**WKQRI SI*MEHL
23715	54083	A	23850	1075	1350	AITANVFKFVSIDRGLVCNMEL EGSNCFIDVCWSWTSEMKSKGTS RR*KIT*GNSSGSLPRDTQRSGH RNSSLCCERSKYGGSRVDIRRK VF

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23716	54084	A	23851	1	956	MEVLARVFRQEKEKGIGK EEHKLFLFADNMTLCLEKTKDS VKVLVEQPSSFGSVDWLCLSSC SGSTHTPRPADVSPGSLPGPGQ TFTGTREPPQAVSTKEASSSNLH APERTVAGLTFTTEQVRALEGV FRHHQYLGPLERNWLAREMQL SEVQIKTFQNRRMKHKRQM QDSQLNGPLSGSLHGPPAFHSP SSGLANGLQLLCPWAPLPGS/L WLPLGSFWGLRQMDQEALASS WASCCGQPLAYHPPRPGSGAH KLGPAALSTGPRGLCALPETGDA FEETPPTTCLPHKRSVQIASDAY PEDSAVLFTSWRHLSP
23717	54085	A	23852	1	846	MEAFDANYTFQSGPSAAGLLV FAGGPLQALCAWVSAVEAAEQ WILQPSSFGSVDWLCLSSCSGST HTPRPADVSPGSLPGPGQTFGT REPPQAVSTKEASSSNLHAPER TVAGLTFTTEQVRALEGVFRHH QYLGPLERNWLAREMQLSEVQ IKTFQNRRMKHKRQMDSQ LNGPLMGSGFPGAPWLSTHFLA LAKGLQ\LLCPWA\PLPGSPGCP LGSFWGTP\QMDQEALASSWA GCCG\QPLAYHPPRPGSGIDLPK GTQLSLRLFQDISSTRGDHRSG
23718	54086	A	23853	3	239	
23719	54087	A	23854	10	1154	RRAGFGGVRASGAMGTPPGLQ TDCEALLSRFQETDSVRFEDFT ELWRNMKFGTIFCGRMRNLEK NMFTKEALALAWRYFLPPYTF QIRVGALYLLYGLYNTQLCQPK QKIRVALKDWDDEVLKFFQQDLV NAQHFDAAYIFRKLRLDRAFT TAMPKLLSYRMKKKIHRAEV EEFKDPSDRVMKLITSDVLEEM LNVHDHYQNMKHVISVDKSKP DKALSLIKDDFFDNIKNIIVLEHQ QWHKDRKNPSLKSKTNDGEEK MEGNSQETERCERAESLAKIKS KA\FSVVIQASKSRRRHKVKLD SSPLDSASGQQGVKATRKKEK KERLKPGAGRKMSLRNKGKVQN IHKEDKPLSLSMPVITEEEENES LSGTEFTASKKRRQH

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23720	54088	A	23855	16	447	VNCDKANCSTTCFNGGTCFYP GKICICPPGLEGEQCEISKCPQPC RNGGKICGKSKSVCEPGCGAH GTCHEPNKCQCQEGWHGRHCN KRYEASLIHALRP\AGAQLRQH TPSLKKAEERGDPPESNYIWVE LPTSGNVLSYTKFI
23721	54089	B	23856	103	1989	
23722	54090	A	23857	3	1295	SGRGVSRHMADYLISGGTGYV PEDGLTAQQQLFTGAAARDRLT YNNFLILPGFIDFIADKVDLTSA LTWKITLKMPILISSPMADAVTEA DMAIAMALMGGIGFIHHHCTPE FQANEVRKVKKFERGFIMDPV VLSPSHTVGDVLEGKMRHGFS GIPITETGTMGSKLDHKQLLC GAAVGTREDDKYRLDLLTQVG VDVIVLDSLQGNSLYQMAMVY YIKQKYPHLQVIGGNMVTAAQ AKNLIDAGVEGLHVGMGCSSIC ITQEVMAYSWPQGTAVYKVAE YARHFDHGEHGKALALGASTV MMGSLLAATTEVPSKYFFSDG VWLKKYRGMGSDALEKSSGS QKQYFMEGDKLKIAQGVSSSIQ DKGSIQKFVSYLIAGIQHGCQD TGVCNLSVLLSMMYSGERKFE KWTMLAQIKGGVQGLHSYKK
23723	54091	A	23858	770	1008	LAPSPCVRSKGRKESPDSR/RPL WLRPIAPALGPSGRRGLAPDSR LNPHRSLLGTGNYDVNVIMAA LQGLGLAAVWWDRRR

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23724	54092	A	23859	1	1489	MTRWSSYLLGWTTFLLYS GGMHEECVFPFTYKGSVYFTCT HIHSLSPWCATRAVYNGQWKY CQSEDYPRCIFPFIYRGKAYNSC ISQGSFLGSLWCSVTSVFDEKQ QWKFCETNEYGGNSLRKPCIPP SIYRNNVVSDCMEDESNKLWC PTTENMDKDGKWSFCADTSNL GMGVGPTPRHHRASTRHSRPP PADPDGGGERPRTADDRQDDA TEDDGTRCRGRQTRTQATNAN ANHKKSNRTKPPPRHKPNKAK RHTKKETPQNT/CGTQDKNPDS GRPKLFRRACITSTGTRGELWT RSREHPAK\QGRRSGKQRLRPW DRMLSPDWHRAQRIAQVWKPE QEDGLSIGFGDQPGPHSDTSSR QQVRRSKATEMHVGGRVDFD DFVELMTPKLLAETAGMIVQ EMRDAFKEFDTNGDGEITLVEL QQAMQRLLGERLTPREISEVVR EADVNGDGTVDLEGIDGAWG RHGTQGPHWPWGLGDRVGEPL
23725	54093	A	23860	283	490	GDIWMGTQPKPYHS\PPGPSPN\ PCPPHFKNQSMPSPKSPPKVFNS FPALTQKVHTSKVSSETRQVPS HL
23726	54094	C	23861	82	222	
23727	54095	A	23862	27	454	VDGRIAGEITRRGSRARPRPGPQ CPPGRPGTAMIKAILIFNNHGKP RLSKFYQPYSEDTQQQIIRTFH LVSKRDENVCFNLEG/LVFVE TLDKCFENVCELDLIFHVDKVH NILAEMVMGGMVLETNMNEIV TQIDAQNKL
23728	54096	A	23863	1	403	RGSRARPRPGPQCPCPPGRPGTAM IKAILIFNNHGKPRLSKFYQPYS EDTQQQIIFRET/HLGSKKEEKG WNFLKGGLLIGGSDNKLDYRH YATVYFVFIGGDFSKRELGFLN LIQEFGEPLDKCFEKVWELDLIF
23729	54097	A	23864	215	599	

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23730	54098	A	23865	2	683	GRIAGEITRRGSRARPRPGPQCP PGRPGTAMIKAILIFNNHGKPRL SKFYQPYSEDTQQQIIRETFHLV SKRDENVCFLEGGLLIGGSDN K\LIYRHYAT\LYFVFCVDSSE\S ELGILDLIQVF\ETLDKCFGNV\ CEL\DLIFHV\DKV\HNIL\AEMV MGGMVLETNMNEIVTPIDAQN KLEKSEAGLAGAPA\RA\VSAY KNMNLPEIPRNINIG\DISIK\VP
23731	54099	B	23866	94	726	
23732	54100	B	23867	94	1146	
23733	54101	B	23868	1	360	
23734	54102	B	23869	1	1371	
23735	54103	B	23870	1	639	
23736	54104	B	23871	280	2391	
23737	54105	A	23872	3	244	
23738	54106	B	23873	103	285	
23739	54107	A	23874	70	378	MPLRILLMHGEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE\ EEEEEEEEEEEEEEILQIKTK HYTTKEQEKEEQGIKLVQGSNN D\QEQEKKGEYKNTGEKNSMK
23740	54108	A	23875	5	156	RKKGGG/EREEEGERGEEEEEE EEEEEEEEEEEEEEEEEEVVL LTPGTGAEDFKKH

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23741	54109	A	23876	1	1808	MEVLSIDNLAGHKVFYQKESHS WKQQKQDLMMSGKRLSAANPLP ALLPVLWTTGQAPSPGPGGDP ILQLWDDAQQMAGSPTKKKG CTRNSQAARLSFQSRRGGQGSLT EKMIFEQRFGGGKGESRKDAIA IIVDIVTLQPCRTVEWVPTRPF RSLQGHFQGGLRRQQMMVME GVWVLSCAMDLTSPRDCLPFC VSLPVLLSAPLCSCSTAGGSPV TSPHHFPVEGGLGRVRRCYINE PVVTTLGWESVCWVFWLLR IRYSTSGQAACHAESQELNPRG FGCLGHRNTWVKCLLPALQP EGSVPFLELLEPFIFASASKTFV AANLVTWVACFLVQAAFQLS EYRQGVGIPVADRTGDAPTLGL SYEADVAEGHGFFLDQESVIQII PEPLPQFYLCLLDAELTGVQGE PALPSMQIFSSPEATGVHNDR GAEHFPVSRQPSAELGLRPMQA SQRERKINFPGPSPGFPPKRQNKT LSRREKKEEEKEEKEEEEEEEE/E GEEEKEKEEEEKEEEEEE GGEEEEEEEEEEEEEEEE KWLYQYDPEDKAQSKQWLSR GGSGPVKAKADWWRAKEIHS QPRQVIPGIPSM
23742	54110	A	23877	459	636	IPGGSNGLEAEGPPPPPLPVAAV LA/AGSGGLAVASCAFTICALR WPGVPCSRVPIWTPS
23743	54111	C	23878	183	254	
23744	54112	A	23879	103	335	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQTDRPKEHLINFKSG ACYTCRKGSH*AKECLQPGIPIK PHLICVGPH
23745	54113	A	23880	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNQPKEHLTNFKSAA ED
23746	54114	C	23881	80	106	
23747	54115	A	23882	317	427	
23748	54116	A	23883	353	511	
23749	54117	B	23884	1	320	
23750	54118	A	23885	1	624	
23751	54119	A	23886	224	355	
23752	54120	A	23887	872	1003	
23753	54121	A	23888	1	603	
23754	54122	A	23889	2	214	
23755	54123	A	23890	459	601	DVDRHVRGSNFHHNEIRSLAAT PRAPGTLAQ/GLTDSFPDLLGLA AED

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23756	54124	A	23891	2	267	QWDGWGARKGMEWEDDLPLE FGRPTASLLSDRPQPNNSSRGSDV PFLVPPSLPCHSSACLAATPRAPG TLAQGSLTDSFPDLLGLAED
23757	54125	A	23892	72	299	
23758	54126	B	23893	1	1470	
23759	54127	A	23894	134	1276	
23760	54128	A	23895	2	847	PPPPRVLRTGGGASLTAQAPGT PRRPQEGERPVTGGRSLGLRSSCQ ASVSLLLPVIVACASLEPGRGR AFRDEGAWNTRVSAAVISSQA QLSSILVNSRRLSFSAHHTAFG TVALGEYAFRMF\RLSARLFG\E VTRPNTS/RSLMKVVKLFSE/IW PLAKKKETYDW\YPNHHTY/AL ELMAGRLRFLGTLTEDEAFRDF MGMEA KTDLKEAFVGKGGNP KEREKGKRAAKKGNSCLVPSR RGDFLSSVAERRKLHLLSFPHIG GDVIFLNGSLFGRNTSHLLGEI
23761	54129	A	23898	3	1224	MRRNKPRQRGVREARPAGGAG PGWRGARCSGAGEGGGGERRG SPPAALALAPASGPRRNFPPDA RCLIYQQIHQGAFLLAGSASLS AVTGVPEGEARFTEDYCPEEK MFGFHKPCKMYSIEGC\CISGA KSSSSRFTDSKRYEK\DFQ\SCFG LHETRSGD\CNACVLLVKRWK KLPAGSKK\NWNHVVNDARAGP S\LKTTFEPK\KVKTLSGNRIK\S TQISKLQKEFK\RSNSDAHSTTS SASPAQSPCYSNQSDDGSDTEM ASGSNRTPVFSFLDLTYWKRQK ICCGIYKGRFGEVLIDTHLFKP CCSNKKAAA EKPEEQGPEPLPIS TQEWT ECPDLSLVVSWRPLSS LPAGCSLHGLAADWTTDMITV TTSKCREPSCQQEGSFQRRKAF PKRLPKMAEVQVLVL
23762	54130	A	23900	69	355	
23763	54131	A	23901	316	830	VSLSQLHPPMTLQLSRYSRGW GLSSDRPRGAKAKVPSFCGTAP R\GPEAAPRLLAHHLVPAGRGS\/ ARAPAPGWR LGSP\GAGRKGR DFR LPASGLAVSGEWDP IPWGY VGEVGGCSCQWFSPGVQQKRR RRKVWLQGPQDLPGP SALADK GPALAKADGQRVN VASVGLQP

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23764	54132	A	23902	1	1044	MSYKVTQEISKELRWISAVLVT WDLRGETGTRVCIAMGVSRMQ YSIMAKIVGSGNNLELNPAADK LDNLGAQCGLASVKVSARAAP PFAPATLVALLEARAAELPLPPP PGVSLRCVEAPDVRGRGRGGG EGSGVTRLLPPPPSGASFLQR GRPVTPALFQAGWGRAADRPG PADLAGGAGGRSGGRRMLPRS PGAALRDRSALEDGIVEGYGPL GEPEEGSRSSFLESKVAFNVCN KVALPLDFGNEAVEQCHTMSDR KAVIKNADMSEDMQQDAVDC A\TQAMEKYNIEKDIAAYIKKEF DKKYNPTWHCIVGRNF\GSY\V PHTEDKHFIFYFYLGVAIL\LFK
23765	54133	A	23903	33	427	
23766	54134	A	23904	72	777	EWKQAGEGGGGQRRGSPPAVL ALAPASCPRREMSYLPNTNPPGSI LICWLGVSLSSHRSAGGSAIY G\SYYPEEKMFVFHKPKMYRSI EGYCICRAKSSSRFTDSKRYEK DFQSCFGLHETRSGDICNACVL LVKRWKKLPAGSKKTGIMCN QSDDGSDTEMASGSNRTPVFSF LDLTYWKRQKICCGINYKGRF GEVLIDTHPFKPCCSNKAAAE KPEEQGPEPLPISTQEW
23767	54135	A	23905	234	989	PKTSDQAYYCPEEKMFGHKP KMY\RSIEGCCISGAKSSSSRFT DSKRYEK\DFQ\SCFGLHETR\SG DI\CNACVLLVKRWKKLPAGSK K\NWNHVVDAAGPSLKTTLK PKKVKT\SGNRIK\STQISKLQK /ENFKR\HNS\DAHSTHPQVPSP\A QSPPLFTVNQFRWTGSDTGVG FPGSNRNHPVFSFLDL\TYWKR QKICCG\IYKGRFGEVLIDTHLF KPCCSNKKA\AAEKPEEQGPEP LPISTQEWVTEVFM
23768	54136	A	23906	3	1059	

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23769	54137	A	23907	1	1697	MRPCALCWRSAVTAAPERAVL ESRGGA PQAHAGPHTRLHPRQGHAMR GGGRVTDTRRHIPNADVPRYK LTCTGGVTTFVALYDYESRTEL DLSFKKGER\LQIVNNNTKGDW WLAHSLSTGQTGYIPSNYVAPS DSIQAEEWYFGKIRRESERLLL NAENPRGTFLVRESETTKGAYC LSVSDFDNAKGLNVKHYKIRK LDGGFYITSRTQFNSLQQQLVA YYSMSHC EEPQKHA PQTQGLAKDAWEIPRESLRLEV KLGQGCFGEV VAIKTLKPGTMSPEAFLQEAQV MKKL YIVTEYMSKG YLR VCKVADFG QGAKFPIK KSDVWSFG PGMVNRE PECPESL PTFEYLQAF MDPG SPALSGG LQVII TFCEACK GKKIRL YYRSA LPKWMK VGNKLD QQITGMRF FLKL NSILSLQ 23770
54138	A	23908	1	736		QRRAGGGGLGAG QRRRKQPPRPADFK QSGGQGRRRKQPPRPADFK LQVII TFV GK YD KET LPK V Q FL NS 23771
54139	B	23909	84	441		
54140	A	23910	6	254		
54141	A	23911	1	230		
54142	A	23912	3	187		
54143	A	23913	3	143		
54144	A	23914	3	481		
54145	A	23915	1	711		
54146	A	23916	55	381		

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23779	54147	A	23917	240	875	GLSAESTPTSIMSMTLGYWDIR GLAHAIRLLLEYTDSSYEEKKY TMGDAPDYDRSQWL\NEKFKL GL\DFPNLPY\LDGAHKMHPEA TPFLCY\ARKHNLLGETGRRE KISSWDIL\ENQAMDVSNQLAR VCYSPDFEKLKPEYLEELPTMM QHFSQFLGKRPWFVGDKITFVD FLAYDVLDLHRIFEPNCLDAFP NLKDFISRFEVSCGIM
23780	54148	A	23918	64	774	CLSAESAPTSTMPMTLGYWDIR GLAHAIRLLLEYTD\SSYEEKKY TMGDAP\DYDRSQWLNEKFKL GL\DFPNLPY\LDGAHKITQSNA ILRYTARK\HNLCGGDRRREKIS CWDILENQVM\DNHMELVRLC YDPDFEKLKP\KYLEELPEKLKL YSEFLGKRPCFLG\DKITFVDFL VY\DVLETK\QVFEPK\CLDAF\Q NLKDFISRFEGL\EKISAYMKSS\RF L\QELVFSKMAVWGNG
23781	54149	A	23919	163	317	LSPNNYYRKLPQKVKE*RYHR LALFSFPTKKLTPEKVSLCCREL EMGYIF
23782	54150	A	23920	62	255	VRLTAQKSLGPLTSTHSLWGS \\RARHREPVGSVCGCDPCEQLL LLVSQLRAPGVDSAAAGRPV
23783	54151	A	23921	173	467	KSRFCFFGVVLKLPKKLHIR*W GATL*NQP*TIFQTDGDCSHQSL GPLPACDLWDQLHLRSKQGGS VCGCDPCEQLLLLVSQRLAPGV DSAAAGRPV
23784	54152	A	23922	35	548	PRSCPSLSPGLSCLLQ/RLVNYQI SIKCSNQFKLEVCLLNAENKVV DNQAGTQGQ\LPAVGQARWGS GCRGAHTWPLAVIGAADCTG QRGWEVG*AFPGLTEPVSSLFC GQDGD/CSPHSM*VLSHVVLWL LNGLC\SLVLSVCGCDPCEQL LLLVSQRLAPGVDSAAAGHPV
23785	54153	A	23923	1	599	MSPAGLVNYQISVKCSNQFKLE VCLLNAENKVVDNQAGTQGQL KGRPDGAQAV/VGAHTWRFGC RRCG*LHRSHWGL*LLHTPCGR PHCARHREPVVAHSLLCSRAISGS EPHFWQCSVQ*PQLCVPGRVAT PLGELDSGDGDCSHQSLGPLPA CDLWDQLHLRSRQGGSVCGCD PCEQLLLLVSQRLAPGVDSAAA GRPV
23786	54154	A	23924	290	528	

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23787	54155	A	23925	274	571	KSRFCFFGVVLKLPKKLHIR*WIGATL*NQP*TIFQTDGDCSHQSLGPLPACDLWDQLHLHSRQGGSVCGCDPCEQLLL\VSQQLQAPAI DSAAAGRPV
23788	54156	B	23926	204	410	
23789	54157	A	23927	29	330	YLGVELVKSAYPFFQIHLSPSCMWLCGLFLLFYIDFLTLMCGDKPLICKKHQLSASTCA/CTIC*GALTLLMEIEQGPGCDLSCASREV STARSLAELFSGP
23790	54158	A	23928	259	699	ETSHQVMDRSNPVKPALDYFLNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKV LGANLWWPYLMHEHPAYLYSWEDGDCSHQSLGPLPACDLWDQL\HLRSRQGGSVCGCDPCEQLLLVSQLRAPG\VSAAAGHPV
23791	54159	A	23929	245	695	
23792	54160	A	23930	302	745	ETSHQVMDRSNPVKPALDYFSNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKV LGANLWWPYLMHEHPAYLYSWEDGDCFTPKA LDPLPACDLWDQL\HLRSRQGGSVCGCDPCEQLLLVSQLRAPGVDSAAAGR PV
23793	54161	A	23931	2	293	VFCHTDLRKNLTVDEGTMKVE VLPALTDNYMYLVIDDETKEAAIVDP AIVDPVQPQKVDAARKHGVKLTTVL KLTTVLTHHWDHAGGNEKLVKLESG VKLESADLGIRLF
23794	54162	A	23932	1	441	
23795	54163	A	23933	1	630	
23796	54164	A	23934	3	265	
23797	54165	A	23935	3	1062	SAVQPGPVMVVGRGCSRRSLA ALGAACARRGLGPALLGVFCH TDLRKNLTVDEGTMKVEVLPA LTDNYMYLVIDDETKEAAIVDP VQPQKVDAARKHGVKLTTVL TTHHWDHAGGNEKLVKLESG LKVYGGDDRIGALTHKITHLST LQVG\SLNVKCLATP\CHTS GHI CYFVSKLGG\SEPFVVFTGDTLF V\AGCGEVL MKGLRDEMCKAL LEVILGRLPPDTVGSASLRAGR VYCG\HEYTIKQTSK FAR\H VET GNA\AIREK\LPWA KEKYSIGEP TVPSTLAE\EF TYNP\FI KVREER RCKQH\AGETDPV ITMRP VRRE KDD\FK\MPRDLR PPLHLQQDL GI KALLDRLF

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23798	54166	A	23936	107	750	SHLWSPVSEPLQACSF/C/VIRDK YRYFACLMRARSEEHTNEKDM MKAIRLLKEAEEEFWYHQHPQ PCIFPDSPRGTSYVTHECYKVPE WCLDDWHPSEKAMYPDYFAK RKQWKKLRLRESWKREVKQLQ EETPPAGKEECKLHEGMNYVV LTCIPGAIKQYLACSRYSKTPGP RDSCWEVQSDNQCWWLDSG AHGLVTSFKGVMMTVEATTM AAVF
23799	54167	A	23937	3	718	PASTISCSVTRSRRAVSRLSARP GKVSAVMASLASGPYLYTHQQK VLRLYKRALRHLESWCVQRDK YRYFACLMRARFEEHKNEQDM AKATQLLKEAEEEFWYRQHPQ P\YIFPDSPWGHPPYERY\DCYK VP\EWCLDDWHPSEK\AMYP\D YFAKREQWKKLRLRESWEREV\KQL\QEET\PPGSF*LEALPPGP KRKVILPPLWW\YIVTRP\RERP MLERERPHLSCLQVKYVTEHG
23800	54168	A	23938	269	488	TDGVIFIGLSWSPRRCGLGIQRD AERIFFALDQASCQFTIHPHIDA AETPRGLT\MLCRRCQRGQSQ AEKLP
23801	54169	A	23939	1	1560	MVHLGAPVMALNLQGKHLCD STASSLLPRRRESNSDDTARED ARQKRPANTDMRTQELQTRET GQGTARETEVATPLSGPSAGDS PPAASEMCGQLVLALLLFFL LVWNTGKSGSGRVARLAQLA HDCDGGALGLCYAVLDQRSV VQATPQAPKPGPVQPLTVQGL QPVHVAQESSGNEITARRQSAR SRPRGDRTAPSRRVTRRPKHAP ERAPIQQGNIVTRAPTARKKW RPAVGTPTGAHPVCTAKGTGG RPTPTQAHTRYTERDPIRNSAEL TGSRPCTGRERSGVEACKAAV HNLL\AQTGSSGLIINYPLDD\Q DAIAVEAACTNVPALFLDVSDQ TPINSIIFSHEDDVVWRTPLVAPT NLNTRSSQPARHHRAGAVRRH HMTVARSATAHARLRRHAKPQ GRERIKPSGAREGSEPLGGESGI RTPRGRERDPNPSGAKAGSEPG RIPETLPRCKGETEAKCWARGN FHTAQGSWPRGGRSRWEPLEA PALSQQAHGGELPLPAAARSHR
23802	54170	B	23940	98	229	

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23803	54171	A	23941	1	256	
23804	54172	A	23942	289	433	VLWSCAAEDFDWLVYRPIGSA LSCRLIGPWAIGMWETGFP*VL WSCAAEDFDWLVYRPIGSALSC RLIGPWAIGMWETGFPLLSSVS LS
23805	54173	A	23943	450	1260	LCACVVGGEKRSGPRIGCAGA GKDPFWRAVGVAQKAAAVVA CGAASPYRNRRADVSVDHSQS RGPGGLSLSGGTVCDMGKKTK RTADSSSEDEEEYVVEKVLD RVVKGQVEYLLKWKGFSEEHN TWEPEKNL\DCPELISEFMKKY KKMKEGGNNNKVREKSESSKR KSNFSDSAEDIKCKKKREQSND IARGFERGLEPEKIIGATDSCGD LMFLMKWKDTDEADLVLAKE ANVKCPQIVIAFYEERLTWHAF\ PEDAENKEKEKETAKS
23806	54174	A	23944	3	267	AMVGGGGVGGGLLENANPLIY QRSGERPVTA GEEDEQV PDSID AREIFDLIRS*AWPLTPQPAYW YPGPSSCQGCYRCFLESLTMRN
23807	54175	A	23945	1	942	
23808	54176	A	23946	3	470	AMVGGGGVGGGLLENANPLIY QRSGERPVTA GEEDEQV PDSID AREIFDIRRCWARAGSGGLRW GEQ*YRAAGGAASQQGVPGRG F*VGKGAESLFLHFPQ\JIRFLN DP PEHSLTLEELNVVEQVRVQV SDPESTVAVAFTPTISHWSMGT
23809	54177	A	23947	2	604	ARSHRISGGGSAMVGGGVGG GLLENANPLIYQRFGEVRPVTA EEDEQV PDSID AREVF\DLIRSH QMTPEHPVLTLEELNVV\EQVR\ VQVSDP ESTVAVGFPKPTHSGT CRHGPP LIGLS\IKVK\LLRSLPS AFSRWDV AHLLPGDPLPQEHA VEQATLQ IKEAGWAT ALGRTH HLLEV VNQCLSSP APGTWAFV
23810	54178	A	23948	1	1002	

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23811	54179	A	23949	89	2587	STSRDRRLSKRSRTTMAAQPRG GDYRGFSLLSILLGTPWEAWAG RILYSVSEETDKGSFVGDIAKDL GLEPRELAERGVRIISRGRTQLF ALNQRSGSLVTAGRIDREEICA QSARCLVNFNILMEDKMNLYPI DVEIIDINDNVPRLFTEINVKI MENTAPGVRFPLSEAGDPDVG TNSLQSYQLSPNRHFSLAVQSG DDETKEYPELVLERVLDREEERV HHHLVLTASDGGDPPRSSTAHIQ VTVVDVNDHTPVFSLPQYQVT VPENVPVGTRLLTVHAIDLDEG VNGEVTYSFRKITPKLPKMFHL NSLTGEISTLEGLDYEETAFYE MEVQAQDGPGSLTKAKVLITV LDVNDNAPEVTMTSLSSSIPED TPLGTVIALFYLQDRDSGKNGE VTCTIPENLPKLEKSIDNYYRL KTTKNLDRETLSTYNITLKATD GGTPPLSRETHIFMQVADTNND PPTFPHSSYSVYIAENNPRGASI FLVTAQDHSEDNAQITYSLAE DTIQGAPVSSYVSINSDTGVLY ALQSFDYEQLRELQLRVTAHDS GDPPLSSNMSLMSLFLVLDQNDNP PEILYPALPTDGSTGMELAPRSA EPGYLVTKVVAVDKDSGQNA WLSYLLLKASEPGLFAVGLYTG EVRTARALLDRDALKQSLVVA VQDHGQPPLSATVTLTVAVAD SIPEVLADLGSLEPSDGPYNYDL
23812	54180	B	23950	165	335	
23813	54181	A	23951	217	859	GSAMAQQRALPQSKE ^T LLQSY NKRLKDDIKSIMDNFT ^E I ^I KTAK IEDETQVS ^R ATQGEQDNYEMH VRAANIVRAGESLMKLVSDLK QFLIL\NDFPSVNEAIDQRNQQL RTLQEECDRKLITLRDEISIDLY ELEEEYYSSSPG ^S VLVSQQLSEQ QLSSAWTAWPKVTLSSLAPGP QYSVNGPAAIIAHPGT ^C ASAGIS SSL ^L PEPVLLVPVF
23814	54182	A	23952	1	1263	

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23815	54183	A	23953	70	2530	PGVSRLVSKLRRARGMGSGAG ELGRAERLPELFLFLTLFCPAL CEQIRYRIPEEMPKGSVVGVL TDLGFSVQELPTRKLRVSSEKP YFTVSAESAELLVSSRLYREEIC GKKPACALEFEAVAENPLNFY HVNVEIEDINDHTPKFTQNSFEL QISESAQPGTRFILGSAHDADIG SNTLQNYQLSPSDHFSLINKEKS DGSKYPEMVLKTPLDREKQKS YHLLTALDFGAPPLSSTAQIH VLVTDANDNAPVFSQDVYRVS LSENVYPGTTVLQVTATDQDE GVNAEITFSSEASQITQFDLNS NTGEITVLNTLDFEEVKEYSIVL EARDGGGMIAQCTVEVEVIDE NDNAPEVIFQSLPNLIMEDAEI GTHIALLKVRDKDSRHNGEVT CKLEGDVPFKILTSSRNTYKLV TDAVLDREQNPEYNITVTATDR GKPLSSSSITLHIGDVNDNAP VFSQSSYIVHVAENNPPGASISQ VRASDPDLPNGQVSY CIMAS DLEQRELSSYVSISAESGVVFA QRADFHEQLRAFELTLQARDQ GSPALSANVSLRLVLDNRDN APRVLYPALGPDSALFDMVP HAAEPGYLVTKVVAVDADSGH NAWLSYHVLQASEPGLFSLGLR TGEVRTARALGDRDAVRQRLL VAVRDGGQQPLSATATLHLVF ADSLQEVLVDITDRPDPSDLQA
23816	54184	C	23954	75	149	
23817	54185	A	23955	442	618	CQRLRSWVSQPFSSFFPSFPTF* NILCLFVYLEVEFPSCCPGWSN NWAKSSGKALEAN
23818	54186	A	23956	1	245	

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23819	54187	A	23957	30	1079	APCASFLTPLAAASVGKVWLGLRGAAPMASVLSYESLVHAVA GAVGSVTAMTVVFPLDTASIFDFSVDF\KRKSKTTHMVVLEI KEEGLLAPYRGWFPVISSLCCSNFVYFYTFNSKLALWVKGQHSTT GKDLVVGVFVAGVVNVLLTPLWVVNTRLKLQGAQFRNEDIVP TNYKGIIDAFHQIIRDEGISALWNGTFPSLLLVFNP AIQFMFYEGLKRQLLTFAFQLSSLDVFIIGAVA KAIATTVTYPLQTVP LFPQFGRHRLNPENRTLGSRNILYLLLQI FRTPSEREPFYTSV TLSVLSSVAYPMMP LNSNITSAYRIGV LEKGGGSGKSDNSDDDDNDGGV
23820	54188	A	23958	1375	2451	VPRVPFAINV LTHSRQRYRRNLRFYADDPTIRV/GGPTYHWVRE AEEERVVDNRMHDRFCELRTAAGHPVEGGRPLVIKGITHPAET ALQRFKFLMYQVVASLDGTL LSPDHTLSPYAKETLK LTTARGINFVFATGRHHV DVGQIRDNL EKS Y MITSNGARV HLDG NL I A HN L R D I A S D L F G V V N D N P D I I T N V Y R D E W F M N R R P E E M R F K E A V F Q Y A L Y E P G L L E P E G T K A L L T P G K L K N F L V E K M R T L G T A A C P P Y H I A F V I G G T S A E T N L K T V K L A S H Y Y D E L P T E G N E H G Q G S A M S S W N R N C W K R P R N S V L A R S L A V N T S R T T F A L S V C H V T A H P A R S A W P V R
23821	54189	B	23959	1	1386	
23822	54190	A	23960	1375	1609	VPRVPFAINV LTHSRQRYRRNLRFYADDPTIRV/GGPTYHWVRE S E E E R V V D N R M H D R F C E L R T A AGHPVEGGRPLVIK
23823	54191	A	23961	433	741	
23824	54192	A	23962	12	224	
23825	54193	A	23963	3	2053	

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23826	54194	A	23964	1	2408	MGGADIAGRPRREHNAKHPTVG LGSAAGTTCLPGPKQKGDPTRH QPVDKRNDVGPRQHFWCWRV EIHKKEKRMKTGPLNESELEWLD DILTKYNTDHAILDVAELDGLL TAVLSSPQEIEPEQWLVAVG GADYVPRWASEKEMTRFMNL AFQHMADTAERLNEFPEQFEPL FGLREVDGSELTVVPPGRTA TNALSCGSLFGEETSPRGPSADS TSQSIGGGSPHDCAKGIALVAA NGGDIRDYEGVDRSAKPQLPMI AINTTAGTASEMTRFCIITDEAR HIKMAIVDKHVTPLLSVNDSSL MIGMPKSLTAATGMDALTHAI EAYVSIAATPTIDACALKAVTM IAGISTFFASSRMALMQASAPSA SFLPVTFPIAAQSRRRAAT GYRDRWLCHGDVLLQICANTQ DTVIHALRDIKHNSCPDDCSVQ HDAVIDDGCFIDYLGGSETVV ALNTPRADDYHPVMVLCAKTD KAHRNVIHTSKLCFITLTPEISQ RSHGKSSKRVFSCFPVFLKH RRIVAQKYAELAYDLFHLGFD VLIIDHRGQGRSGRLLADPHLG HVNRFNDYVDDLAAFWQQEV QPGPWRKRYILAHSMGGAISTL FLQRHPGVCD\AIALTAPMFGIV IRMPSFMARQILNWAEAHPRFR DGYAITGWRRALPFAINVLT SRQYRRNRLFYADDPTIRVGG
23827	54195	B	23965	1	3357	
23828	54196	A	23966	14682	14931	EIGPGPRPLPSPLP*ATSTSVLAA SGRPERTRHAGIKIVLEDIFTL WRQVETKVRRAKIRKMKVTTKV NRHDKINGKRKTAKEQSPLLQE SLFATGDVSHNLLRALDVGLLA NLSALAELDISNNKISTLEEGIF ANLFNLSEINLSGNFECDCGL AWLPRWAEEQQVVRV/AAARGS HVCWAWLPGWPASAWHPLAG QWLW*GVCRLLPP*QQLRHRGS SVLFSCP RRPA/CSQRPAAPSAS PPARASQPSPSRA

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23829	54197	A	23967	1	714	MVKLSIVLTPRFLSHDQGQLTK ELQQHVKSVCPCYLRKVINT LADHRHRTDFGGSPWLLIITV FLRSYKFAISLCTSFLCVSFLKTI FPSQNGHDGSTDVQQRARRSN RRRQEGIKIVLEDIFTLWRQVET KVRACKMKVTTKVNRHDKI NGKRKTAKEHLRKLSMKEREH GEKERQVSEAEENGKLDMKEI HTY/MITPSARKPLCNRVRMAA AEHRHSSGLPYWPYLTAEKL
23830	54198	A	23968	111	216	ALLFPISTWSTPLGTQQAPQCV* PTPMPMRPVPS
23831	54199	A	23969	1	4710	
23832	54200	A	23970	3544	3723	RSHRSPPRCPPSRAPAPRRSAAA PPRR*PPRAPAAPRPGPP/CMAR PPPARPTAGSRVPP
23833	54201	A	23971	3	1119	EFGTSHRHRGTDGGSPWLLIIT VFLRSYKFAISLCTTYLWVINTL ADHRHRTDFGGSPWLLIITV LRSYKFAISLCTTYLWVINTL FPSQNGHDGSTDVQQRARRSN CRRQEGIKIVLEDIFTLWRQVE TKVRACKMKVTTK\ATRLTK IKERRKTAQDHWRKLSMKERE HREEERQVSEAEENGKLDMKEI HTYMEMFQRAQALR\RRAED\Y YRCKITPSARKPLCNRVRMAAA EHRHSSGLPYWPYLTAEKL MGHQPPPPTQQHSIDNSLSLKT PPECLLTPPPSALPSADDNLKT PAECLLYPLPPSADDNLKT LLTPLPPSAPPSADDNLKT VCSLPFHPQRMIISRN
23834	54202	A	23972	1	1149	

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23835	54203	A	23973	93	1165	HRRSAAEAPAAA VMPFPFGKS HKSPADIVKNLKESMAVLEKQ DISDKKAEKATEEVSKNLVAM KEILYGTNEKDPQTEAGAQLAQ ELYNSGLLITLVADLQLIDFEGK KDVAQIFNNILRRQIGT\RTPTV EYICTQ\QNI\LFMLLKGYESP\EI ALN\CGIMLRECIRHEPLGKIL WSEQFYDFFRYVEMSTFDIASD A\FATFKGLLTRHKLLSAEFLEQ HYDRFFSEYEKLLHSENYVTKR QSLKLLGEPLLDRHNFTIMTKY ISKPVNLK\LMMNLLRDKSRNI QFEAFHVFKA\FVANPNKTQPIIL DILLKNQAKLIEFLSKFQNDRTE DEQFNDEKTYLVKQIRDLSRPA QQEA
23836	54204	A	23974	3	158	
23837	54205	A	23975	3	1071	GVRASGRAVPRAVFAGMKRPC EETTSESDMDETIDVGSENNYS GQSTSS\VIRLNNSPTTTSQIMAR KKRRGIIEKRVRRDRINNSLSELRL RLVPTAFEKQGSAKLEKAEILQ MTVDHLKMLQATGGKGYFD\A HALAMDFMSIGF\RECLTEAAR YLISSVEGLDSSDPLRVRLVSHL STCATQREAAAAMTSSMAHHHH PLPHHWAAAFHLPAAALLQP NGLHASESTPCRLSTTSEVPPAH GSALLTATFAHADSALRMP\ST GSVAPCVPLLSTSLLSLSATV\H AAAATATAAAHSFPLSFAGAAPP MLPPNAAA AVAATAISPPLSV SATSSPQQTSSGTNNKPYRPWG TEVGAF

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23838	54206	A	23976	1	1416	MPGNLTRKESSPLTDRHCHTS SQFSHRFNAISPFPAAELGCDHV ASAAAADPLGVPGVATQWAGGL SAALAAAPRRPHSCRRLQVLGAL GILKSAGRNVNRCFGPLSIRGKP KTPLWEQEKPKLQTGSAGSQQ KRVMLKPSRGADRVLGRGSQR PAETDRETTDLRQRKRMKEGK ERTLRAARGETRRSNGNLARQ TVPEGCRSQTQALQVVRNART PPCIPNLDLDRPPEACSSGSGTGGM MPLRVAPSPVASGESSHLSGR GDRGLVRCKVEELRFQPVAFPE FIPPPTSRADSESGDWCCTVLA NPSKTGSGGWEQRKTECPQGR TQNPQQRGS/RNLVLLTAGQES TPRRSQLTRSPAERRTEEQGE DRKNRALGCNLFPRVPRHARD SQRALRASTQAPKKSTAFPGI HSGAVCSKRRICGVQGEFPPLPF ASQCSSCLKILPSPGPTKELTSY LLHSGCGFLDKLRV
23839	54207	A	23977	3	139	
23840	54208	A	23978	141	734	GSQLRRPAFGVRVALEESKGLI RKDSCRGRACAGANACARRRR PPTMSGAAWRGTPLALVRSSRT RGVWAQWWSATRSPSDSCFPG VARDKEDGEPKTKHLREEEEE GEKHRELRLRNYVPEDEDLKK RRVPQAKPVAVEEKVKEQLEA A\SPEPVIEEVDSLNLAPRKPDW DLKRDVAKKLEKLKKRTQRAI GRLDP
23841	54209	A	23979	3	585	GTVGGVCGPDRSSASPQEQQ DRRKDWGHVELLEVQARALF TAVPLSEEDRATVLKAVHKVK PTFSLPLQLPPPNTSKLLRDVY AKDGRVSYPKLHLPLKTLQCLF EKQLHVELASRMCCVVSVEKPT LPSKEVTHARKTLKTLRDQWE KALCRELRETKNRLERQVYEG RFSLYPFLCLLDECEVVRMLLQ

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23842	54210	A	23980	1	3778	MRRRGPVGWPAGACVMSALC WGRGAAGLKRALRPCGRPGLP GKEGTAGGVCGPDRSSASPQE QDQDRRKDWGHVELLEVLAQ RVRQLQAESVSEVVVNRDV RLPECGSGDGLQPPRKVQMG AKDATPVPCGRWAKILEKDKR TQQMRMQRLKAKLQMPFQSG EFKALTRRLQVEPRLLSKQ\MG GCLEDCTRQAPESPWEEQLARL LQEAPGKLSLDVEQAPSGQHSQ AQLSGQQQRLLAFFKCLLTDQ
23843	54211	A	23981	101	805	HMYTSMKPSSQPRS WISTPHPK ACSSLSPFLSLDNWMNINLREVI CTSRDGDKFWRMPECYIRGSTI KYLRIPDEIIDMVKEEVVAKPR GRGGLQQQKQQKGRGMGGAG RVGSPLSGVPGAGRQPHVAS LLLGVAlAAlPRLPNLPGPPS CPLAMNRGPGRGAPRHGTQPSS QCASWRSSGHIKSPPQAPVSPM RGNNGAHLSPATTGTLRGS IQSQGRPPPPEMMNW
23844	54212	A	23982	133	1069	RIAWGQDRSCLQGGPFATYVP GLILCSLQGWYGVQAGQDLQG LPRSQGWARRPGGKLITCSPSP QDGDKFWRMPECYIRGSTIKYL RIPDEIIDMVKEEVVAKGR\GR EGPCQQAESQQK/GVRCGMGA GRCVFGGRGRGMGSPTG\RC PDKKPGRQAGQTVSAHPDRLL RPLLARVGDFRSTVSERNLLQK GRGRPPRGEPPFRVLVTPSLFKV KAPFFLPKNRQILVRKCLLCCF FGFCETGPSQKLGWNPLERVLC LKAIFSSPFASGFSRASHFPRRG LFLHFLGSLSEASNQTGRFLIK
23845	54213	A	23983	1	326	PVSLECYTVPPEVDNLALLQYF RTLVTGA/LRPRWCPVLYAVTL WPHVNSFIFSRPRIVDIDGKM GTLSCIQPFNRCLARRTLCPNG RQETKEQKACLPGSRLFELF
23846	54214	A	23984	2	341	

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23847	54215	A	23985	114	712	DLISALMIWFHVIVIHTPYVCIYI PTLPLSTSFPLSQLPVSLECYTV PPEDNLALLQLYFRTLVTGALR PRWCPVLYAVAVAHVNSFIFSQ DPQSSVSYISIFRGRKGASN*AA SGPAGEEVSVKQGQWWVPAL GSVPPLPVLL\DEVKAARRSM LQKTWLLADEGLRQHLLHYKL PNSTLPEGFELYSQMPPLRQHY
23848	54216	A	23986	357	2771	FESSCPPVGSPVGAGPTPSLYKV PCATAMKLLRVLASAGRNIAA RLSSFDLRSRLCRIIAEAPQEL ALPPEEAEMLSTEALRLWAVA ASYGQGGYLYRELYPVLMRAL QVVPRELSTHPPQPLSMQRIASL LTLLTQLTLAAGSTPAETISDSA EASLSATPSLVTWTQVSGLQPL VEPCLRQTLKLLSRPEMWRAV GPVPAACLLFLGAYYQAWSQQ PSSCPEDWLQDMERLSEELLLP LLSQPTLGSLLWDSLRCNSLLCN PLSCVPALEAPPSLVSLGCSGGC PRLSLAGSASPFPFLTALLSLLN TLAQIHKGCGQLAAILAAPGL QNYFLQCVAPGAAPHLTPFSA WALRHEYHLQYLALALAQKA AALQPLPATHAALYHGMALAL LSRLLPGSEYLTHELLSCVFRL EFLPERTSGGPEAADFSDQLSL GSSRVPRCGQGTLLAQACQDL PSIRNCYLTHCSPARASLLASQA LHRGELQRVPTLLLPMPTEPPLL PTDWPLPLRILYHRASNTPSG\ LSPTDTMGTAM\RVLQWVLVL ESWRPQALWAVPPAARLARLM CVFLVDSELFRESPVQHLV\AAL LAQLCQPQVLPNLNLDGLRG LTSFPDLYANFLDHYEAVSFGD HLFGAMVLLPLQRRFSVTLRA LFGEHVGALRALSLPLTQLPVS LECYTVPPEDNLALLQLYFRTL
23849	54217	A	23987	291	454	KAETGSLPYTLCKNQFKMD*RL TC*T*NHKNP RRKPR*YHSGHR HGQLHDENT
23850	54218	A	23988	1	613	

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23851	54219	A	23989	807	1345	RCEERLLPLNLAVIALPSGLER WSFFAVYNGHPGSQVAKYCCE HLLDHIADNQ/DFTGSAGAPSLE NVKNGIRTG/CPEPEVHDTERSE EDDHFIILACDSIWDVMGNEEL CDFVRSRLEVTDDPEKVYNEIV DTC LHKGSDNMCVIF\WFPN APKVSPEAKKEAELGKYRLN SILSDQ
23852	54220	A	23990	344	636	SSLSLLDIWVGSKSLL*IVPQ*T YVCMCLYSSMIYSPLGIYPVMG WLGQMVFVLDPSGIATLTST MVELVYSPTNSVKVFLFLRILSS TCCFLTF
23853	54221	A	23991	1	2793	
23854	54222	A	23992	18	409	SSVVEFVDPRVAPALLPQLPLES SSHGSVLPTMAVCLDKGHKMT KNMSKPRHCSRGRGLTKH\KFM WDMIREVCGFAPYERHAMVLL KVSKDKRALKFIKKRVGTHIRT KRRQEELSNVPAIMRKADAKKD
23855	54223	A	23993	1	609	MHPRGPPPPAQEESHTDESPGID HQSLARRAGR VGRTGFFSQLL AQNTNTSMLSSSPASCTSPSPDGE NPCKVHWASGRRTSSTDSES KSHPDSSKIPRSRRPSRLTVKYD RGQLQRWLEMEQWVDAQVQE LFQDQATPSEPEIDLEALMDLST EEQKTQLEA I LGNCP\RPTEAFIS ELLSQLKETPETQPASEISLRDH
23856	54224	A	23994	1	204	
23857	54225	A	23995	1	418	MWNRLCNWVTSIGWKSLEGSE EDRKSSQWGTLPSGAVRRGPPS SRSKNGRSNSSLHPVPGKATGT QLEPMRAVMGDESCKATGTEL LHALGAHPLHRLLKQHSHMMF QKVQVEPLRK\EPHHWQRL*PF SSE*NHGPSR
23858	54226	A	23996	104	253	

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23859	54227	A	23997	666	1436	WRPCFWLQAKKEAPAP\PKAK AKVKAL\KAKKAVLKDVFHSHK KKKD\RKSPTRG\PKTLCTR\KP PKCLQKTAPRKNKLDHCAITKF PLTTKSTTKKIEDNNTLVFIVDV KANKHQFKQAVKKLYDTDVA KNITKRDVTSIITSYIHLRLA SRLAEDLLLAGLMNCLKGTFW NEESGERVETRPESRFKQQSKLI YTIKNPGRKKYGAEEKRAFWC HTDLLLHDHDEQVNHFSSPSST FTKCKRRKPFLREFVWIK
23860	54228	A	23998	2	301	
23861	54229	A	23999	1	242	MGMVRKQALERTEWALVCRQ AWSSRMGYSTTVSPTQCQYTC SRGLLDSQLQLYKCTQALPEIH SLGHVCPSLITVKYSHYVLAAA TLFIWDNNESLRTGLLSVSTCK SGTRDFMRISGMVSLTSEVDNV EVFHYFPLHIQGKKFWAVGAI MTIFVISIYYEPGAHWHHMWK LLKVYSLESQKREEDISKRLPNF LKSSRRPWEDLILMLRKSPEMS KEYRASPLSLAALRSKDRQSR HRCVTSTFIREVRCCKSQGLP LCMHETAHICP*TEGQQKGSG GLLYIP*TSPEIFSAESEDPPMAC
23862	54230	A	24000	2	948	CGTPTVVPGTGTSRRVRTATVE PTWKCRAAQQPPPPP/PPLWVK LPPPDTSTKPELQLEELDADSS WMPLHGSCPTGKLAVDARSSL FTEPAFPYWKMKHFTQNILS WSKFTNLTYSVTQLWLLVVMA QTSYPHSLVGRKQVILHSSCLY SLDNKTSLAGDDHDDDDHDDN DSSPAEKGPPPITKSLDKADEQS HRLAVLELGFYKPVNLLVA MTGCLLQLMMKKEQCGTHGG EGSTLEGSRPDVQDLSPTLGF YGSTSLSADLGENVILKLYLPSF PLQESEPSAEHGENLWALYVGF EERRSEASLAKAP
23863	54231	A	24001	265	513	
23864	54232	A	24002	513	796	TGTAWTPPPPLTTGAPCTPPPR CTARGRT/PGDSHLGGGPAATA GGPRTSPMSSGGPSAPGMRPPA SSPKRNTTSLLNSGLEPTFSFRIT FGFM

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23865	54233	A	24003	1268	2097	TPELTGAISLSTLGDPSFRQPSS AQMGHLLSTSLSLSTPPTTSNSETT QPAFATVTPSSSSVLPGLPQTSF SGMGPSAELMASTSPKQQLPQF SAAFGHQISSLHSGIPKDLQPSHS SIAPPTGFTVTGVKLQTFAVSVT VLKATCLELFVPPGGFVVSLAS GVKLQTVTPLHFGSNHPSAFYY YRLSFEMDKGKKRQFGVEKEK CGSLGGFVMLGNEEMIRRAVT LIAWTKIPFLGIREAKNPGSENI RLATILEAPPPSWELWEQGPPG APYYQP
23866	54234	A	24004	3	1163	GEVTSWNRGRLIWRYFLFGP VQKTMRLLLSRLTYCWLEQDG RVSWRGLLEIGSLPTPVPVRLCP ANRSPPMVCCTTGRSSNSSTE KRMCTCSSRAALHFLKGPEGG TLMEEIRALIKEPPESSLTPSTRG GHSEKAPSKNHQAAATVNNTTLS RISHISHTHLLIHCTGKEQHEPY EDAATRSRPEADLSRHERLT HLDLGLPDMQNRCVPGSQGL RPVGGLEGPRHWCLVRSSRLG VLPRRPQGCEDDAGGLQRQDC GQWRELVQLPTPP/VCPGGASP HPKPLPDLPPGSSRCFCLLP TCPAAPPAGSPSPCSQSPGCLPP VPTPSVLECCTQVLLEDSKPQS HRNSAPHLQPGIWSHIPGSHPW CLVLAEGSTSSV

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23867	54235	A	24005	1	2502	MEARVERAVQKRQVLFCLVFL GMSWAGAEPLRYFVAEETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDLLL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGAFL ESAQDSDVGTNSLSNYTISPNA YFHINVHDSGEGNIYPELVLNQ VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKVQVPENSPVGSMVVSV SARDLDTGSNGEIAYAFSYATE RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPELLSSLT SPIAENSPEVVAVFRIRDSDG NNGKTVCSIQDDLPFILKPSVEN FYTLVTEKPLDRERNTEYNITIT VTDLGTPRLKTEHNITVLVSDV NDNAPAFQTQSYTLFVRENNSP ALPIGSVSATDRDSGTNAQVIY SLLPSQDPHLPLASLVSNADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTYSLP PRNPHLPLASLVSINTDNGHLF ALRSLDYEALQEFEFRVGASDR GSTALSSEALVRVLVLDANDSS LFVLFPLQNGSAPCTELMPRA\A AEPGYLVTKNAWLS*QLLKAT EPGLFGVWAHN/GTDRLLSERD TAKHRLMVLVKDNGEPPRSAT

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23868	54236	A	24006	1	1960	MEARVERAVQKRQVLFLCVFL GMSWAGAEPLRYFVAEETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGAFL ESAQDSDVGTNSLSNYTISPNA YFHINVHDSGEGNIYPELVLNQ VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKVQVPENSPVGSMVVSV SARDLDTGSNGEIAYAFSYATE RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVVDVTDINDNRPELLSSLT SPIAENSPETVVAVFRIRD NNGKTVCSIQDDLPFILKPSVEN FYTLVTEKPLDRERNTEYNITIT VTDLGTPRLKTEHNITVLVSDV NDNAPAFQTSYTLFVRENNSP ALPIGSVSATDRD SGTNAQVIY SLLPSQDPHLPLASLVSINADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTYSLP PRNPHLPLASLVSINTDNGHLF ALRSLDYEALQEF FRVGASDR GSTALS SEALVRVLVLD ANDSS LFVLFPLQNGSAPCTELMPRA\A
23869	54237	A	24007	1	966	MGHLMIDKLVALGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVIYRKHFANPLSALFLQQGI ELFAAIAEIHITTVAERNHAITQI RLEAQTI FDSLKEWHNAIRKSL DYEALQAF EFRVGATDRGFPAL SSEALVRVLVLD ANDNSPFVLY PLQNGSAPCTELV PRAE PGYL VTKVVA VGD DSGQNA WLSYQ LLKATEP GLFGV WAHNGEV RT ARLLSER DVAKH RLLV VKDN GEPP RSATATL QVLL VDGFS QP YLP LPR AAPA QAQAD SLTVY VVALAS VSS LFL FSV LLF VAVR LCRR SRAAP VGRC SVL

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23870	54238	A	24008	1	2673	MEVMGNMGSKILITGITSTKRK VALLAKKRERKIIISQRKDVTDS RAKRQSEEKSIGKETVIGIGLI SKDSAAAICESRWRLSESHFER LIQRRMEARVERAVQKRQVLF LCVFLGMSWAGAEPLRYFVAE ETERGTFLTNLAKDLGLGVGEL RARGTRIVSDQNMQILLSSLT GDLLNEKLDREELCGPREPCV LPFQLLLEKPFQIFRAELWVRDI NDHAPVFLDREISLKILESTTPG AAFLLESAQSDVGTNSLSNYT ISPNAVFHINVHDSGEGNIYPEL VLNQVLDREEIPEFSLTTLADG GSPPRSGTALVRILVLDVNDNA PDFVRSLYKVQVPENSPVGSM VVSVSARDLDTGSNGEAYAFS YATERILKTFQINPTSGSLHLKA QLDYEAIQTYTLTIQAKDGGGL SGKCTVVVDVTDINDRPELL SSLTPIAENSPETVAVFRIRD RDSGNNGKTVCSIQDDVPFILK PSVENFTLVTEKPLDRERNTE YNITITVTDLGTPLRKTEHNITV LVSDVNDNAPAFQTQSYTLFVR ENNSPALPIGSVSATDRDGTN AQVIYSLPSQDPHLPLASLWSI NADNGHLFALRSLDYEALQAF EFRVGATDRGSPALSSEALVRV LVDANDNLVPFLYPLQNGSA PCTELVPRAAEPGYLVTKVVA VGDGSGQNAWLSYQLKATEP
23871	54239	B	24009	1	993	
23872	54240	B	24010	1	4056	
23873	54241	B	24011	1	906	
23874	54242	B	24012	1	4318	
23875	54243	B	24013	41	1935	
23876	54244	A	24014	3	328	GWQSGPVLGGLCGTAGQSCGD GDIWWAQAQAGDPAHLRL LTHGQPSSVPEAPVRAHQPALP QPRSAARECGR/AGRSTTNSL RKRVASESYMIVAPPMPSSWSS SG
23877	54245	A	24015	114	567	VKKPHSAEWVPLWGLQPGWR QPFRCNSGSEKELRPVSNSQEIL LSPVTMRKPAVSVCCDLTLREA APPFQRHERTYTGEKPYKCKQC GKAFSGFCYTQILEKAQTGKQP YE/AHERTHWKQNHDCTQFGK AFSFSSSI.CIHEKIHTGEKLYE

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23878	54246	A	24016	170	491	PAQHQRGLWQSPTHQALTMLM SVHREDWKPVLTINSIIYGLQYL FLESKNRWLGLERLGFCPSGLIT PPTCTGHRSP/NPEDPLNKEAAE VLQNNRRLFEQNVQRSMR
23879	54247	A	24017	1	1062	
23880	54248	A	24018	2	700	RRPTRPGGGGGGGGRMIKLF LKQQKKEEESAGGTKGSSKKA SAAQLR\I\QKDINELNLPKTCDIS FSRSQTTLLNFK\LVICPDEGFY KSGKFVFSFK\VGQGYPHDPPK VKCETMVYHPNIDLEGNV\CLN ILRGDWEASPLRLNSIIYGLQY\ LFL\EPNPEDPLNKEAAEV\LQN NRR\VCFEQNVQRSMRGGLHPA PPTFERCLKIGLAHTHPPRPQA LASPAKYLLGAMG
23881	54249	A	24019	302	884	PMAPLSSQQPTLFPNLTQAQQ VQLTKGLRKWMVQHGGDGW VVEENRTTVPGAPSQTCFVTSF/ EVNAPAIQSWCCKKQVLDLEE EGLWPELDSGRIEICVSDWWG ARHDSGCMYRLLVQLLDANQT VLDKFSAVPDPIPQWEQQCLPF TFTHVFFQHSRWRGVRCVFSEH RGPOTHSSGAGPLLSPCEQLQC
23882	54250	A	24020	274	866	SSLLNLPSSWDYGVSYEQAN CKGEQFVFEKGEYAHWDWWT SSQRTDFSSLR/RPSKVDSQEPK V\YLYENPNFTGKKMEIHD\DV PSFHA\HGYQEKVSSVWVRSG MWVG\YKYPGYRGLQYLLKG DYKDSSNF\GARHPQV\QSVRCI HDMQGHQCGAFHPLGTQEEE AGQKEQMEQVPFWLARGDICE LSGKKSVI
23883	54251	A	24021	179	374	AASIGRSMTEKAHAGPRPGRN* ADAPSSDTLFPPDALLSNQAG RLACWLFSYGPQTKNDFHIFK
23884	54252	A	24022	1	141	

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23885	54253	A	24023	1	506	PHSPLWKTLCSPSSGVCCGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMYGLFHFGVMMMDQ PQPSLTRADESCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTLCSPLLSSGVCCGFVTLFCNDR FACLFQLTPPPSPA WMTAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKVIQMVP FAASPKKETLIQLMPFFVMGLQ VGMYGLFHFGVMMMDQPQPSLT RADESCDRVLSPCAAHRKQR DCCLSWKAEPE
23886	54254	A	24024	1	396	
23887	54255	A	24025	1	1176	MVPGDLSQTSEDQSLSDFEISN RALINVWIPSVFLRGKAANAFH VYQQSIAGVSGIARKRALIPFGK STFSYVCITNIKLTDALPSWDYT CHFNLPKAQKPGEPPTKCIILTME WLALLQGDPGSWIQKEFIVGKR GGKMDNILWDQRDVQPPGLRP HQLLHSGGGPLISFRNGGPILV WELRRKGASGKEIVGSRYFRES DEVLVWKNPKTLQKEDEEVNS THPMHTYPCTHCQVFCVTAEII NIYLQACIVLEMSMLPPGERPLF LLRLTTVLETVFDSQWSRPYH VSADPSAWKHHHHYHHHHY QLSSSSPTITIINHPSPS/LSHASPS P/CHPSPSPAVHHHHQPSITIIIPSSITI PSPSPA VHHHHQPSITIIIPSSITI INHPSQASSIHHHHQPSIPFIVSH
23888	54256	A	24026	1349	2125	
23889	54257	A	24027	670	972	KTDEWNIYRRYTEFRSLHHKLQ NKYPQVRAYNFPPKKAIGNKD AKFVEERRKQLQNYLRSVMNK VIQMVPSSLPAPKETLIQ\LM PLLRSTSTPPRRAL
23890	54258	A	24028	1	699	

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23891	54259	A	24029	221	864	VDCPRSFSAVVVWQGRFWLLSFIPGGFLGMLTFFASGMNWTVTLLGFLAGNLEVEPSDTIENVKAKIQDKEG/IPPDQQQLIFAGKQLEDGGTLSNDYNIQKESTLHLVLRLRGGMKIFVKTGKITLEVEPSDTIENVKAKIQDKEG/IPPDQQQLIFAGKQLEDGRTLSEAIFLDVGLLSCRTVSSCGAFILGWSVVLIPVISTRDDTSTK
23892	54260	A	24030	2	864	PSFRLAWPEGRLALLGELVCVPVVGRGMENGRILVSADRGSGGICLKTLTGKTTLEVEPSDTIENVKAKIQDKEG/IPPDQQQLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLGGMQLVLRGGMQJFP*RP*PAKTTLEV\EPSSHHRKF*RARFQGKEGIP\PDQQQLIFAGKQLEDGRTLSDYNIQKE\STLHLVLRRLGGC*FFSHGIRSAQ
23893	54261	A	24031	1	124	
23894	54262	A	24032	97	296	
23895	54263	A	24033	71	269	AAGYRPCPRHPGARRTAATTRCHPSAVARPAGCSGPP*CYALSPDPARTRRGDPQTTPCRLPRA
23896	54264	A	24034	206	667	STRGLPKCWDYRREPPRPAKSFLTAQACEAQKTGSATRRKDCFLQPTFWLLPFLVLEKGAPSA
23897	54265	A	24035	3	190	CRGKRYVRAVWLSLSTGAILQPYPKLQVSNWL*CARDQEMPEGCL*QSCQTLSSLVLPPKEKKDV*EISPWTPAPPEHQYTVRTFQSP
23898	54266	A	24036	197	474	GTFKNDLILLISKSY*APLPSDFSHSDTSS*KPSKSLKTYPSPPFFSAKTSLLQCPRNILY
23899	54267	A	24037	164	323	SPLSHRGASELLSSLHLRSSCSSPKMAETPEAGFQIVHSASPQGTTAPGNPWAAGAGG*HCEPGQLAGPYRAASFGQA
						WPPHPRAKLGCSR
						GQEIKTILANMVIPLY*KYKKISWA
						WWHAPVVPATWEAEAGE
						LLEPGRQRLQ

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23900	54268	A	24038	582	1166	HCEPGQLAGHLGQPLSSGRLGH LMASHKLSNNYYRTRDGRRES VPPSIIMWSQKALVSG\KPAERV YGDANHTVGNMCASRLGGYL GFSIRIVVFIWYLGLSVVVNML VGRQCDWQGLVYGGPELLVFS GNMPGEVARGKHRNEKAPLSM RPASQCRVFCVLKGCSERSRHK EQTPDTTIFKNCNTHCEGPWLH
23901	54269	A	24039	1214	3878	
23902	54270	B	24040	62	1242	
23903	54271	A	24041	74	408	
23904	54272	A	24042	790	1877	DEIVDPGSMKWSYKSQLNYKT KRPSVFVTALTHRDPDILILGTLE SGHSRNLTCSPWACKQGTPP MISWIGASVSSPGPTTARSSVLT \LLPQSPQDHGTSILTCQCT\LPG TGVTTTSTVRLDEAYPA\WNLT MTVFQGEGTASTTLRNGSALSV LEGQSLHLVCAVDSNPPARLS WTWGSLTLSPSQSSNLGVLELP RVHVKEDEGEFTCRAQNPLGSQ HISLSLSLQNEYTGKMRPISGV MLGAFGGAGATALGFLSFCIIF VGVRSCRKKTARPTMG\VGDT GMEDTNAVRGSA\SQGTPELN PRQKEQAPQNHGSANALANPP RPEEGEIQYASLSFHKARPQYP QEAEIGYEYSEINIPK
23905	54273	A	24043	183	1176	VHQLVFPRQHQRHSVFPKANSS WIHQLFPQ\QHSYGPSAVSAGQ HQLMVHSLFPQATPAHASISLV FRQGTHQLHHRVHQRRIPSAQHQ RHRLHQRRLPSAQHQHRDHSIS VCFPFRATHTRPHCDSDIQRQHQL MRSIGLFFSGKTDPTVTLKEA AAEHEICLCSRHPVNLRCTKAH LGNAAHAVFPRGNQKKPEMCP YLPYKLVVPTPPLIPLEAALRN IAHSRSIPPPKKFSPTPDTSDDYL LVFNSFPYSKLTPKTGQGENL GSTRPIPNCNGPPTRGPHNGAKY PGDVSHPVGVGTLWANRLLTG QYEENGKSFLLICTIATFQVNA
23906	54274	C	24044	178	342	
23907	54275	C	24045	86	283	
23908	54276	C	24046	91	177	
23909	54277	C	24047	11	169	
23910	54278	C	24048	209	673	
23911	54279	C	24049	164	208	

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23912	54280	A	24050	182	255	DAESRRSWQPLPEPLELRP\RLSD
23913	54281	A	24051	146	456	LKNHKRSEKPCPTLTDDIPPK KCKWPVLALSADITL*KSFSWL ILAQKAPPLSTL*PPLLPAEQQM SFSDLIFLYLPKSYKVAPPLSSFT ESLFGLSPPAPR
23914	54282	C	24052	90	215	
23915	54283	B	24053	1	1059	
23916	54284	C	24054	129	215	
23917	54285	C	24055	19	347	
23918	54286	C	24056	228	260	
23919	54287	B	24057	406	602	
23920	54288	C	24058	7	375	
23921	54289	A	24059	322	400	FLLSRVPSV*DPTENQTVQLTW EWLP
23922	54290	A	24060	818	1078	ILDVFSYTMKIEPSPLRSYPISPH YNL*QLPP*LDP*ESGYKTPLSA LLLTFLLYISSFASHKVSSSSVD PLPTCAYLPIGQAHVH
23923	54291	C	24061	1	411	
23924	54292	A	24062	1	861	
23925	54293	A	24063	425	484	
23926	54294	A	24064	1844	2097	HSAGTKLRLVNFLTLRLVNS VMRLKKSFMMVQRMVSIPKV WSISLGFLSFVPSVWDPT/ENR TVQLT*HPLPEPLELGPRLS
23927	54295	A	24065	729	807	LFSCSCPPKPPRP*LTAEKGGLC IFL
23928	54296	B	24066	1	1317	
23929	54297	B	24067	509	810	
23930	54298	A	24068	1	385	MDLPSTVRVTRSSASVMVQGG SEAIRQRQSSAAKPRRSRGKESKS LGPEFQGLWEWLPEIYFSQFRR LGNPKSRHQHQCLMGACFVV TERLSFQDSLDAEPRHSYPLQ VKRLLDLPVLETETDLEKLDPF TTIPSPVETLQCLFVSLRIKS RVP *FWISQPPEL*EINFWQPLPEPLE LWPKAL
23931	54299	B	24069	1	774	
23932	54300	A	24070	350	640	SLQGCLSDNSPTFQRCQTTQGR LPWSFTLSGKSHFSGGVARACY TCQKSGHWA\RNASSPGFLLSR VPSVSDPTENRTVQLTWQPLPE PLELWPKAL
23933	54301	B	24071	85	331	
23934	54302	B	24072	1	1844	
23935	54303	B	24073	1	1169	

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23936	54304	A	24074	63	220	NLTGNIWNREWYSHFDFDLD PVGFSGSIAKMPKRKLFKCHSV *GHWRSKSE
23937	54305	B	24075	497	898	
23938	54306	A	24076	3	678	GGGFSDRDRTIALQPGQQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGEKFYFIPKAMG AMEGSGQRRTLDPGGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWEVNPLSSCSLLRE/KD PPTTSGPQSNQPRKH/LTNFKSG A/CYTCRKSGHWAKECPLPGFL LSRVPSVWDPTEN/RTVQLTWQ PLPEPLELWPRLS
23939	54307	B	24077	522	873	
23940	54308	B	24078	329	530	
23941	54309	C	24079	147	439	
23942	54310	A	24080	3	3889	
23943	54311	A	24081	2	394	
23944	54312	A	24082	1	197	
23945	54313	A	24083	1	205	CLRAGPHALYLLC/NIPEFTFL/S RADF\ARSQQLVDLLTDPFQ\QEL EELLQVGAVTLILRILPCLPCLP
23946	54314	A	24084	134	182	SCFIPSSQPVAGTERSRLGPQY FQTPHNPSGPGLGNQLMR*AF
23947	54315	A	24085	257	481	
23948	54316	A	24086	415	630	
23949	54317	A	24087	123	340	
23950	54318	B	24088	49	270	
23951	54319	A	24089	1	900	RSRVRREVVALRRGLACIPSLG VWRFPSVGVLAVSDRWCLAVS DRWCLARATLSCFGCAMPMYQ TRRQENDLRTASIAV*RRKQQN DH*KQRRWQNIQRKGPKRYIVI AGNSQSHQPMIFSMLRKLPKVT CRDVLPEIRAICIEEIGCWMQSY STSFLTDSYLKYGWTLHDKHR EVRVKCVKALKGLYGNRDLTA RLELFTRFKDWMVSMIVDRE YSVAVEAVRLLILILKNMEGVL MDVDCESVYPIV*ASN*GLASA VGEFLYWKLYPECEIRTMGGR EQRQSPGAQRTFFQLL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, \=possible nucleotide deletion, \=possible nucleotide insertion)
23952	54320	A	24090	1	812	MARTPGAEELAVAKYPKKGSQA VHRHSRKQSEPPANDIFNAAKA AKSDMQHREVRVKCVKALKG LYGNRDLTARLELFTGRFKDW M\VSIMIMDREYSVAEAVRLLI LILKNMEGVLMVDVDCESVYPIV LFYYPECEIRTMGGREQRQSPGA QRTFFQLLSFFVESKLHDHAA YLVVDNLWDCAGTQLKDWEGL TSLLLEKDQSTCHMEPGPGTFH LLGESPGISAIVQGAIEKSGERSS PPPKRIGSMKEGPMVPLALDT QCWFPEVPLD
23953	54321	A	24091	152	1209	MPLKNVQNIHFPLEKELALPL LIFSPHLHWCVSGYLSLPLPNPKP HFSNPLLLQVILPALTIVYFSIL WTLLTHISKSDASPGECCGS*MG* WEQRNLCPSPILPLQSPLCPTEAA VEFEGTRMVAFCELC\QSCLSD VDTEIP/ESR*VLAQSGRKKAELY PCPPFPRRN*QCHYLPWETFCPF KHPFFSPLQAFVLLSDLLIFSP QMIVGGRDFLRPLVFFPE\ATLQ \SELASFMDHVFIQPGPRPGQW CSDSIPGAQ*GLGLGCSSKI*GR KLKSVIPFCLPCEPGDSQEDHLQ IERLHQRRRLLAGFCKLLYGV LEMDAASDVFKHYNKVHQGPS LGFTKPLVMPRFSAATV
23954	54322	A	24092	37	625	SLMLLTPFHFPPECPPPPIPTAH HLLPFLSTWELFLQQQLQEVVV KHAEPAVLEAGAHAL\YLLCNP EFTFFSRADFARSQ/V*DLLTD RFQQ\LEELLLQGRELGAGTMG DTPNKGWGGGCKTGGMWDL MSSGGKCYCGIFFSFSILPSQIED EVYNLGSHEPLCLLQVSGFP PLPHPVFTGVCGVGSLCSFPV
23955	54323	A	24093	2	198	PNDRSRVTREMSAPSRSLGFL SVGVWHAPPSLALVPPCCTRL KTYHGRGAPLRVELPTCMYRL SNVQGRSGGPAPGVGHLQSLV DEWLDSYKQDQ\AGFL\ELVN FFI*S\CGM*RNSGDYPLTAPGL SWKKFQGSFCEFVGTLVRCQ YILLHDDFPMDNLISLLTGFSDS QVCAFRHTSTLAAMKLMTSLV RVALQLSLHQDINQRQYEAE NKGPGQRAPERLESLLKEHKEL H*YQAKNLSRARCSTCGASH
23956	54324	B	24094	211	3841	

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23957	54325	A	24095	1	1798	MSLLAFKIIIVGFEGSKARVQT DLFYRSLVLFLLLQICFPLSCFG NWKGEEGGMQRWVLGKNEKI ASPHRLPAPTARFAVSLQLNLRI LGAFQFGPVLFVLWRPLDRDN ASPQSEFLNSCGITAYLVGKRE GGVERGGGGRSSERCRTLSFS PRHSHVFSTSRFCKILKKSPGAN GGRCRARGGGLHGARAANPPT PIAEPARLPACLSRAEPEPQAAE PAPPPVGVVRSPRLSHRRHPVV CPAAPIRLINKRLAHSARPAGIC CVSRSGLSALAAAGTASMFQLP ILNFSPQQVAGVCETLEESGDV ERLGRFLWSLPVAPAACEALN KNESVLRARAIVAFHGGNYREL YHILENHKFTKESHAKLQALW LEAHYQEAELRGRPLGPVDK YRVRKKFPLPRTIWDGEQKTHC FKERTRHLLREWYLQDPYPNPS KKRELAQATGLTPTQVGNWFK NRRQRDRAAAAKNRSQTSPWA EAFRFPECGSRLAKHFAEPEGLI PQAQMLLTILFAFRSGRPDPTRS REHLLRRKPKQADAPLEMQLQQQ VLSQGSGRALRAEGDGTPEVL GVATSPAASLSSKAATSAISITS
23958	54326	A	24096	3	1034	GLHGARAANPPTPIAEPARLPA CLSRAEPEPQAAEAPPVGVV RSRPLSHRRHPVVCAPAIRLIN KRLAHSARPAGICCVSRSGLSA LAAAGTASMFQLPILNFSPQQV AGVCETLEESGDVERLGRFLWS LPVAPAACEALNKNESVLRAR AIVAFHGGNYRELYHILENHKF TKESHAKLQALWLEAHYQEAEL KLRGRPLGPVDKYRVRKKFPLP RTIWDGEQKTHCFKERTRHLLR EWYLQDPYPNPSKKRELAQAT GLTPTQVGNWFKNRRQRDRAA AAK\NRLQQQVLSQGSGRALR AEGDGTPEVLGVATSPAASLSS KAATSAISITSSDSECDI

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23959	54327	A	24097	3	1024	GTRVGVAWRSVRLLLPGAGL RGGVVLKVSPSPCRGGRRVPVR AEGARGRPINKVPGASSGAA VGAARLTAPLLAKAMASKLLR AVIL\GPPGLGKGAPVCQRIAQN FGLQ\HLS\SGHFLRENika\STE VGEMAKQVYREKVFLVPDHVI TRLMMSELENRRGQHWLL\DG FPRTFGQAEALDK\ICEVDLVIR LNISFETLKDGDN\RRWIHP\PSG \RVYNL\DFNPPHVHGIDDVTGE PLVQQEDDKP\EA VAA\RLRQY KDVAKPVIELYKS\RGVLHQFS GTET\NKIWPVYVYTLFSNKITPI QSKE SILT LAQWEEPGRCGSFIP IVWCSNWCCCPNLEA
23960	54328	A	24098	2	178	
23961	54329	A	24099	96	340	FGALTRIG\DLPWEINPLSSCSLL PEKDPPMTSGPQTDQPKHELTN FKSAARRSSRTSSHRLNLLHVLEI WQLDQGMAPA RDS
23962	54330	A	24100	3	155	
23963	54331	A	24101	1	162	
23964	54332	A	24102	1	1032	
23965	54333	A	24103	167	476	TAMLLTQSLFGGLFTPTHMKFG AVTQIG\DLPWEINPLSSCSLLR EKDPPTTSGPQTHQPKEHLTNF KSDHHGCRASGNSHSGRMLLIF SPSRGLYACSCVKT
23966	54334	A	24104	371	772	
23967	54335	A	24105	146	312	QKRSIPNSSPIP*SHSLLANCTK/ DHHLNGSKSFQPQLLSCKFS* GQHLFQGALCT
23968	54336	A	24106	76	441	
23969	54337	A	24107	1	1284	
23970	54338	A	24108	150	371	EESRAAGIPWPSGQISGTC SKL\ CGRRFWRNAWPLRFRHLEVLV CWRCGCGLHSGGKELQLFSII VHLEGEVN
23971	54339	A	24109	280	351	
23972	54340	A	24110	1	483	
23973	54341	A	24111	129	363	FGVVTQIG\DLPWEINPLSSCSL LCEKDPPTTSGPTKKHLTNFKS SKRPLFTLFSNLPHYPSTSFSFQS WRYTSISPFS
23974	54342	A	24112	2	111	
23975	54343	A	24113	3	808	

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23976	54344	A	24114	497	815	TALLLTQILFGGLFIWTRVKFG ALTWIG\DLPWEINPLSSCSLLH EKDPPTTSGPQTDQPKKHLTNF KSACFERIKACYHSPATAWPKF AYKLSLQFPFHFTCPKTR
23977	54345	A	24115	1	753	
23978	54346	A	24116	1	513	
23979	54347	A	24117	625	701	IHVAHKLAVVMPGCKRGCLSL FYFQLIWSHKGWVRSGEASHR EMAGLLLLCSS*PPSPCETLPRS EPSLCDRSAESRTKTSNLSCIP ASLQQVCGPREFIWSGNHCHPF LPITRCYGCCLCYHYCMENSIL
23980	54348	A	24118	458	605	VVEEGIEDKRVYRLGTTGWIGK TIWLVRRRS*TNL*DLSGFWTG KMGEL
23981	54349	A	24119	566	769	IKEKGGLFSFSASNLWKQVTSS FLCSPLPLSLKSSKLLANRDKY RMCGPVPANGNRTQQ*SKHVR
23982	54350	A	24120	345	664	GEIAASQEPAAGGFSGSSAQPCPL PWTGPPTTQAPGH/CNSAPSSRD NASSNGGRRQRVPTVPGGLIL QREHILLPLGPALRAAGKEPAT AATIPESPGGDSDDSRT

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23983	54351	A	24121	2	2204	IDMIFTPGPPSTPKHKKSQKGSA FTFPSQQSPRNEPYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDFLVDMHMHQHMERLQVQ VTEYYPTKGTSPPAEAEKKEDN RYSDLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGGFAHDPVNLP RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRSSITRSDTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNNGSSWMREKRYL AEGETDTDTDPFTPSGSMPLSST GDGISDSTVPLFLSSEILQKQVG QSITSMLGFLSRGPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFKFSAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDFT ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNESDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLTQSLFGGLFTTRTRM KFGAVTRIG\DLPWEINP/LSSCS LLHEKDPTTSGPQTDQPKKHL TNFKSAARPTFLGQQQVPLNPF SFTLSGKSCFPRRQEPPNRLFPH PNLLSLCPNPLFLCPNPFSTFLE GKNHHPHPFVSQVFSLGLPPS LWEHSPMAHRLRVQPRQQPPDI HKQVISLQSCHSLLVKSQSWSQ DPIKFQLPHHHKNTASVCINPSV
23984	54352	A	24122	2102	2529	ETTMSFIFSLLYPFRMHLSFLIVS PALRSISRRALAAFPRGRSLDLQ PAMPEPPTPS/CGLLCVPS\PPMS AAPCSKVPQSHLFAMSCNTAK VCSFTAEASETTSPPGTNNSR RATLRAVTLRRSATLRRSAA SHRSSTV
23985	54353	A	24123	299	567	TAMLLTQSLFGGLFTQTRMKF GAVTQ\ADLPWEINPLSSCSLL HEKDPPTSSGPQTQPKHEHLTN FKSGETKEMHFIRGPKTPAPVM
23986	54354	A	24124	684	822	KVKRQSYSQNTFYYPICSRH*IK LQKLNSGPQTPQQDLINLAIKV

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23987	54355	A	24125	1163	1826	TVLLLTQSLFGGLFIWTRMKFG AVTR/IRGDLPWEINPLSSCSLL HEKDPPTTSGPQTNQPKELLTN FKSVPTPSVAESFQSSFSTDPSD PSSPPPQAAPRQAKPGPNSSASA PRPYNPFITSPPHTWSGLQFHSA TSPPPPAQQFPLKKVAQVKGTV KWLKTDARSPQKPTGTITDAL DNSHSGGPIMDRPLLVKSPKQF LRLLVFSKTFISLTILNLQE
23988	54356	A	24126	636	922	TATLLTQSLFGGLFTRTRMKFG AVTRIG\DLPEINPLSSCSLLRE KDPPTTSGPQTHQPKEHLTNFK SDKGDMFYPWTQNSSAGHGLG RQPSLGV
23989	54357	A	24127	728	1013	MKFGAVTRI/RGDLPWEINPLSS CVLC/CREKDPPTTSGPQTDQPK EHLTNFKSGKRPAYSLLQPPSL SLLNLFLSILAPHFNLSLLISIPF IFW
23990	54358	B	24128	1	3993	
23991	54359	B	24129	105	420	
23992	54360	B	24130	45	2866	
23993	54361	B	24131	1	1680	
23994	54362	A	24132	1257	1403	
23995	54363	A	24133	1	2130	
23996	54364	A	24134	1	725	
23997	54365	A	24135	2825	4123	RAADGVITLEDNDPCVKKDSSR FPYEDRLDLVLKGTADIPRLTV HRGSEYIISRATFPACYFIKEQSVI NHCYTEIDLKIFRQYLAPALGV THRFGVGTEPFCRVTAQYNQDM RYWLETPTISAPPIELVEIERLRY QEMPIYASRVMFIFRPDNTALP RNDTPQMVKLFMDRFQVVKDI GVIELKVVEDQRTRAVMIKFRA FVKEGAIVIRFDNKEVAFQM SGNLTVPRSTSVDYKARDIFFQY RFLTRISTGHGVANNHQIRRL ELAGIVPLNQLNALLKVYPLS KLCNSPKKCQLESVFRLTQWV VKKPISNRQSGLGGIVLPGLFRV LSPGNLSPIKGTVILPNEVQPGF LGNLVGPI/RGWIGLS*TYLPHGF TG*QNSAGLADH*RASASPERA GVYPIHNERCAHRASRYY*KW HPDSVAADHLLG

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23998	54366	A	24136	137	1199	ISSGGPRELGLKMHIVPGSQLSQ LPPGLDSTEFAAIVGNL LDNAF EASLR SDEGNKIVELFLSDEGD DVVIEVADQGCGVPESLRDKIF EQGVSTRADEPGEHIGLYLIA SYVTRCGGGITLEDNDPCAPLT LLIVEDETPLAEMHAEYIRHIPG FSQILLAGNLAQARMMIERFKP GLI LLDNYLPDGRGINLLHELV QAHYPGDVVFTTAASDMETVS EAVRCGVFDYLIKPIAYERLGQ TLTGFP\QRKHMLKSIESATQKQ IDEMFNAYARGEPKDELP TGID PLTLNAVRKLFKEPGVQHTAET VAQALTISRTTARRYLEYCASR HLIAEIVHGKVGRPQRIYHSG
23999	54367	A	24137	2	243	RPGRGLGQRG\IWEPA\LLDSV AQQQGAWLPHVADFRWRVDV AISTSALARSLQPSVLMQLKLS DGSADLEKRCERRLQD
24000	54368	A	24138	1	1483	MKLMETLNQCINAGHEMTKAI AIAQFNDDSSPEARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVH LAQ DLALKGLRVLLVEGNDPQGTA SMYHGWPVLDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFDFMLRD LLKNVDLKGFEPSDLRYLQSC EWGDTGIFLKWSCIPAEGKLQT SGAWVEAADIPLLPGSPRRLSP QAGSRGQQGPKHGQQCLKMP GPRAPGLQGGSNRDP/AP/GPAV ERAPAAALSSTTIWMPMSLCP WRPVLAACTSMTVRGRSTMYL PTTGAGCTWPKASLATRWL SSPMGRQARSLMLGAQVTLSW DRSMPWRRGRSSGRNLSTI

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24001	54369	A	24139	727	1498	GICIWDRPPGLADQRRSHSHGW WGELATPLPWHH\HLSDSHSG\RV SFLGAQLPPEVAAMARLLGD DLDRSTFRKLL\KFVVSSLQGED CREAAAVALGSAPTCRR\AAGC \LLAGMHTLLQQALRLLPPTSLK PDTFRDPAPGALHPPRPGRGL\G QRGIWE\PSGPSFDSVAQQARV AWLPHVA\DFR\WRVDVTIST\VS AL\ARSLQ\PSVLM\QLKAFQNG SSIPAFEVPPQPKF\QEL\RY SVA\LV\LKEMADLEKK\CE\RN LQD
24002	54370	A	24140	1	312	
24003	54371	A	24141	2	524	
24004	54372	A	24142	144	494	AGSCPFAAGPGPLGSGRCFVLIR FIL\QNRAGKTRLAKWYMQFD DDEKQKL\NEEVHAVVTVRDAK HTNFVGVSCTFKIILPPLCWPLL LASVWMFNDNKPGLYLGPFH NFRGRS
24005	54373	A	24143	1	428	
24006	54374	A	24144	108	422	
24007	54375	A	24145	3	387	
24008	54376	A	24146	3	337	TRLMLLDRSGQGKVYGLVGR* RFQQMDVLEGFLNLLITI*RN RN KLRVYYLTWLRKIMDNDPKLE KKHDWTTAGYMEGCGHYRVG KYERIKFLVIALKSSAEVYAWA PKPY
24009	54377	A	24147	1	340	ERTRMNKQHNSTLAKSRPGNT GPEPLMPQASPGPPGPLSQTPP MHRPVEPQEGPHKSLVAHRVP LKPYAAPVPRS\QSLQDQPTRN LAAFPASHDPDAIPAPTATPSA RGAV
24010	54378	A	24148	335	869	ATPTLILSQKSHFWPQPLSSV LK LTSGPEISLQSSPSPICRMKKRR LSPLASGLES*VKSGEWCEVLS RAPLFP\HNPSQAAP\EWEMQG TRPSIPHPLGLAGLPTQLQQGRL WG YRNPASPFRTRVAARDCAG KQVRTGPDARLEGSRPGVRAG LGWGRGYSERVQTCAKSSVSPS
24011	54379	B	24149	158	5640	
24012	54380	A	24150	1	1854	

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24013	54381	A	24151	1	1510	MPCGKQGNLQVPGSKVLPGLG EGCKEMWLRKVIYGGEVW GK SPEPEFPSLVNLQSWKINNL M STVHSDEAGMLSYFLFEELMRC DKDSMPDGNLSEEKLF LSYFP LHKFELEQNIKE LNTLADQVDT THELLTKTSLVASSSGAVSGVM NILGLALAPVTAGGSLMLSATG TGLGAAAATNI VTNVLENRSN SAARDKASRLGPLTT SHEAFGG INWSEIEAAGFCVNKWWKAIQG IKDLHAYQMAKSNSGF MAMV KNFVAKRHIPFW TARGVQRAF EGTTLAMTNGA WVMGAAGAG FLLMKDMSSFLQSWKHL E\DG ARTETAEELRALAKE\LEQELD RLTQHHRHLPQKASQTCS SSSRG RAVRGSRVVKPEGCLATSQPH QHQQERGDRPREDT DNEKRGG EKWSDFGSV LKGEPTGFVHGL DLWCEGKKSQDNNGGLWPEQL AGWSCWHLKWTGGSRSGLP VP VLDAACTGTLSPDLT SWRYHPS SIPLPKQPLQHGF
24014	54382	A	24152	3	515	VGTQAGAAPGPVQFLSSAWVA L\HETELPPLTAREAKQIRRE\IS R\SSKWV DMLGDWEKYKSSRK LIDRAYKGMPMNIRGP MWSVL LNTEEMKLKNPGR\YQVRSARA QPTGQAVSGAQVSSWRERQDH P GELGVKIMKEKGKRSSEHIQQ MDLDVSGTLRRH IFFRD RYGT
24015	54383	A	24153	1	1317	
24016	54384	A	24154	1640	4841	TITGSSPLAGGH HSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPV GINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGEWETYKHS SKLIDRVYKGIPM NIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSSEHIIHHIDLDVRTTLRNHV FFRD RYGA KQREL FYILLAYSE YNPEVG YCRDL SHITALFLYL PEEDAFWALVQLLASERHSLPG FHSPNGGT VQGLQD
24017	54385	A	24155	1640	4056	

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24018	54386	A	24156	479	3902	GQVDEDVSVKMDTVPGVNLSC ILNEMRDQDKKLVEKSYKDAK GCFFSMGEPSLIDPCLEVCGT QLAQLQGLIRSMEQQLCELCCD AEHQDHEHQVLLDVKTRLEQEI ATYSRLLEVEDAQQQPIVMRA MTSECHWCLAPIRSPDCVCVLR QLHTRSGIHKRFCGLKGFLPER HNPGQLIHQNQSGCCSRMYPFD RKLGISVALNIPGGRSYRDLWC LTAVHIHIPGIDHHLFTLGRM DMVENADSLQAQERKD
24019	54387	A	24157	780	983	QHQSLIGHKYQRSHRSL*AEPE* LECHQPDLAEPADGPPLTTRYG IVNAEMGLEQLLPKGPSLKEAK
24020	54388	A	24158	773	2016	DWPTLRENRKEPTLKYWGLVP LISGMPTWFFFFLSACGNLIPSG GIRVPMENML/RVFRAVEEHCP WFPEKGTLSVEQWDVGAKFQ ELVPTGNYVPITVWGDWALLL QFSESGDPLPLPQLSSPTGPSLS DQPLPSPTPPPDDVENSISNSG DFGLTLPPGDLILFPEEPLLAAS AAPNRTALGHIIYANSSLFKPLQ HLPLESANGSGAKLQFTYNSAG PSPSSAAPRPPVVSVPQPVTLPs TQAASLYPSSHMDTSNHQCTSA SSAPPMLSHTLIPSDETTCNVF NYPLKKPTGRELREAKNKGSQP KVHEKTNPNGNIRCISTEERPHEN KGFNHLLEWLAELKTTIHLDC WFIAKDVNREQPDGRDAGDKR LCVKFLREIAANTYKTEVGAAK VMEILLHSHGATTIAN
24021	54389	A	24159	365	675	
24022	54390	A	24160	I	1191	

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24023	54391	A	24161	363	1434	QQGVCSGEKGGHWAPRQVGV YLLPGRVGVCVSSRVSPSFGDG LDSSGLARRGSAVSALASGLVEE PMLGPPFHPTPRFKAVSAKSKE DLVSQGFTEFTIEDFHNTFMDLI EQVEKQTSAVMLASFNDQST SDYLVVYLRLLTSG\YLQRESQ VLRALHRRVDGTVQRSSAKQE VEPMCKESDHSHHCAGPGPS ACPSRVGVHGTAARAAPPRTS F/H*GVPSPKVYLLYRPG\HYDI LYKLGGLGSSPLGCPGCPPLLARA LGHCYRGFSVVVNGPISPPSSCH MTPPPCFIKGGAGGEPCVRVPA LLPAWLLCLLPPPRWVPLIFT YLLLSFPNRSRFEGPGLLEAPPA SLGSASFPS
24024	54392	A	24162	2	888	VFRSRHQGCLKMAAEPPQQQN QYPLGSDSEGVNCLAYDEAIM AQQDRIQQEIAVQNPLVSERLE LSVLYKEYAEDDNIYQQKIQ\D LHKKYFVHPQDQGLTGTCFYS GFRDSPTWEGTCWIDSKELQRF QGLVS/SQRSGKGTLVSQGLSL EFHNFEFGSTTTFI/VDLIEQVEK ADLCRRPCLASFNDQSTS\YL VVYLRLLT/SRAYLQRESKFFEH F\EGGRTVKE\FCQQEVEMW QGEATTSTSLALAQALSVSIQV EYMDRGEGGTTNPHIFPEGSEP KVYLLYRPGHYDILYK
24025	54393	A	24163	3	819	EGATMAAPPQPVTHLIFMDG LLLDTERLYSVVFQD\CHRYD KKYSWDVKSLVMGKALEAA QIIDVLQLPMSKEELVEESQT LKEVFPFTAALMPGAEKLIHLR KHGIPFALATSSGSASFDMKTS RHKEFFSLFSHVILGDDPEVQH GKPDPDIFLACAKRFSPPPAME KCLVFEDAPNGVEAALAAGMQ VVMVPDGNLSRDLTTKATLVL NSLQDFQPELFGLPSYELEGRA SVFRPQPTLMVHTAGGKGKEIS NSSIPTCAVILAS
24026	54394	B	24164	115	594	
24027	54395	A	24165	4	160	SIIFPAIPVSLK*IKPNCPEPPDH LLQAAWGCVSLGQGLSYSALN TLLYFT

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24028	54396	A	24166	88	2280	VPLYDRMGGETGLLIPSPFRSL HAATDAHSCKNRHSLTGKTDS LWQQDTKLQTRPKATQGKGES GGCGPHRPLLRTKSTPESKS AHDPPVAPAQAGASGCGRGAA QKGFGAKAAVDGQGRDRTPG VPAAGPPTSSGRGDRGPSSRR TRSQTPESTGRPGSRQFQAAPP PSHHSRPAHAPFPGFQMYRGPL YSSSPAPATPNTSAYESPRFCST SYISSSPRFCPTSYICSSPRFCSTS YICSSPRFCSTSY
24029	54397	A	24167	2	352	WRTLIVLGMSCLGSYPK*MHLT HLIHCS*EARSLVTLHIIPLTICG EPRNIIKLVGCP*IQWKK**KKI MNSRILSPSFRSRY*TSNLLGLP *LRGLSPVERELKLWTNRHKLL
24030	54398	A	24168	2	252	NKSSVFATCSLDPISIMSLM*W TSVISCRSKK*SRSLRIRL*HKA KELIYPLPVRESMWGYCQLLS MSMPIMHAGTGEMTTG
24031	54399	A	24169	1505	1680	RTSSLVTL*TLHLEPAGT*VLTP GSTTIGITVSGTVLFLILLSCFLSS TPFRLKLACLS
24032	54400	A	24170	681	932	
24033	54401	A	24171	1740	1950	HHHLLQMSWSAGMQAWHW PSFYNVVTGKTLA/LPNLIALQH IPLSPAGVIAKRPAPIALPNSCA ALLSSQ
24034	54402	A	24172	1	652	GKLTEARTRCCMQLTSRHRH TALNHTTCSHHCNSGVMAGRL GPITVLSGD\GPKGMRAITMW HTLARPTGDLEAPRHRGPRRIT ATQPDHAPPATSRNRAAHP\HN HTP/PHPQTAH/PTATHSHLTYR TPRPTPATRTP/HPHSHQQYPY Q/PTQRSPYLHPPPAPP HISLHPS TTRATVNAPDTRPTIYARESVPF GRLLNLGRQRGMELANILQVH GP
24035	54403	A	24173	267	400	RFLHCGNLAGLLVGFLSFKLGE YEGLGPLAALTAGKGLFFLPLE SRLRLHRRPKPRSPASFG*VSRH THAIHFN
24036	54404	A	24174	422	452	
24037	54405	B	24175	131	1047	
24038	54406	A	24176	2	199	LGLR/CARLEARARPPWATVRE KLWLFGHPTHMRCWSRGLFQD DLGLQKPLSGGSSAYRGCENL NS

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24039	54407	A	24177	440	1746	RNLQCVFQGRIKEGIPVLALS/L RPSP/RVLHTATKQKNSCQHLE EDVD\QTKWRTDTPSMDKILME EVKLEEQLKEAVE\EDKQALAD TEGSEQSSQKLVEEGNMYSIQG FCKDSLEVADVLEKATQCVPEE EIKDNNPHLKNLCETLTMSEEL SQMVDCCRLPQDVSVLGVALH WVTPQMLCVPVNEDIPEVSDT VLKAITAPPRVPIGRTSGDVVTG GVRRRRVSSAMSQHRAFRDVT VTVQCLELGCFLLRVELASQFL KPRRSPESNEKVPEIEVTVEASA KMSHPTLYDATRSPWGMFQSQ SVLLSCAHHSLLRGATLDRCGS IDESEEWYGMDTFECTGVGVSI RRATEPERSSGSAAALDSHRSM HPIVNHACEGSTLRCPYENLMP DALSLSPILSSRSGDASPQAEILP VVGPFRMRRCLTVDPPLGLDVT
24040	54408	A	24178	391	656	

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24041	54409	A	24179	1	2150	MEDSTSPKQEKENQEELGETRR PWEKGKTAASPQYSEPESSPLE AKQGPETGRQSRSSRPWSPQSR AKTPLGGPAGPETSSPAPVSPRE PSSSPSPLAPARQDLAAPPQSDR TTSVIPEAGTPYPDPLEQSSDKR ESTPHHTSQSEGNTFQQSQPK PHLCGRRDVSYNNAKQKELRF DVFQEEDSNSDYDLQQPAPGGS EVAPSMLEITIQNAKAYLLKTSS NSGFNLYDHLSNMLTKILNERP ENAVDIFENISQDVKMAHFSKK FDALQNEELLPTYEIAEKQKA LFLQGHLEGVDQELEDEIAENA LPNVMESAFYFEQAGVGLGTD ETYRIFLALKQLTDTHPIQRCRF WGKILGLEMYIVAEVEFREGE DEEEVEEEDVAEERDNGESEAH EDEEDELPKSFYKAPQAIPEES RTGANKYVVFVCNEPGRPWVK LPPVIPAQIVIARKIKKFFTGRLD APIISYPPFPGNESNYLRAQIARI SAGTHVSPLGFYQFGEEEGEEE EEAEGGRNSFEENPDFEGIQVID LVELSNWVHHVQHILSQGRC NWFNSIQKNEEEEEEDEEKDD SDYIEQEVGLPLLTPISEDLEIQN IPPWTTRLSSNLIPQYAIAVLQS NLWPGAYAFSNGKKFENFYIG WGHKYSVDNYTPPVPPVYHE YPSVPEMAEMDDPSVEEQAF RAAQEAVLLAAENESEDEDE
24042	54410	B	24180	1	489	
24043	54411	A	24181	39	423	RSPTPDAASRSQCSSRRRGVS KEVFVSMARTKADWPANRTG G*STPRKPTGPTKSPLRKSA/A PTGGGERNPRLQGLVTVAAAP* NLDGYQKVHSNFLIRKLSLPSV WVREIASGLKQNLRFQERQ
24044	54412	A	24182	3	384	
24045	54413	A	24183	1	434	MLQNVTPARAEWQRKTALQG VEDPVPARPPPISSPEDLRLSGEC STAPTRQVPQPVHE/SHRPTQ DSPGARRKPTSERGHTEQRAAP DREARPATRGWGLRPGQWLG GSEHAAAAPGPSDHPRGRCRH HTILQRPRLLSGKTES

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24046	54414	A	24184	15	286	LPSRGAWLGTCSPPCLSLPPPP WAPVRPEPPR*APPPAPRRPVPS TTQGSLGPHCFYEL*HSPRSA ASLLKPARPRAHQEERTTPDAP P*EL*HSP*RSAASLLKPARPRA HQEERTTPDAPP
24047	54415	A	24185	2	214	CLSLPPPPWDPVRPEPPQ*VPSP APQHPVPSTTQGLRSVGARRGT GRQLHLQSRCGIHWVKPAGLL SLGL
24048	54416	A	24186	308	311	LPSHGAGLGTCSPPCLSLPAAP WAP/RVARASPTSAAPTPQHPV PSTTQGPLGSPSTLRKL*SFALC NKSCCCSLFGSTLPL*AVTLTA KVCSTPKA\ARP
24049	54417	A	24187	1	669	MMNEGSGISLSGCDLGTALQLL SQAIVECLKLFQMLNRSTILGSG GQQPSSHSSTKLRPDSGAQLAS PSGSCTGAAGGAACQSRTVCSH SSALGWSMGLGAVEQGVVVLV GEAQAAQEPMEGVGGSGMAG CRSRALPHGKAAKARRAIEHST GGLALLGDPVHSPQPLARVLSP SLPRASRAGW/PAPSAGPPSPHP PGTPAGPQAPHAAPVPARASPS TPPCKL
24050	54418	A	24188	157	395	RCSSCQREMTPYGK*NVQKRL KTTKNGSM*LKSHILSTPEQ\PA SPTSS/PPLLQPAAPAPPLMPRPS PPPGISVA*YPGM
24051	54419	A	24189	2	287	CLSLPPPPWAPVRPKPPR*ATPP APRRPVPSTTQGLRSAGARRGT GRQLHLQPLCGIHWVKPAGLLS LVGTWRTFMSSSGIVNTPISTLC LAQGL
24052	54420	A	24190	500	724	
24053	54421	B	24191	1	2154	
24054	54422	A	24192	688	1215	SRLAPALLSPWVVDGTGRCGA VGGAHWGGLGRRTGAHGGGGR LRHGGLRVPSPAPREGS*GPPR YRAQRWWAGT/DWRTQYTLRS CWPGLPSK*REMTPYGK*NV QKRLKTTKNGSM*LKSHILSTP EQ\PASPTSS/PPLLQPAAPAPPL MPRSPPPGISVA*YPGMPWTC PFYWQ

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24055	54423	A	24193	308	1131	VLQLLRRRTWSCSLRAWSWDL IVPPGGLVVSLASGVKLQTFAV SVTALKEARLDFVPPGGLVVS LASGVKLQTFAVSVTAHKSSV DPKNSGAQLASPSGSRTETAGG AACQSR AVRSHSSALGWSMGL GAIEQGAALVRGGSGRTG\PME WVGGSGMAGCRSRALPRGKA AKAQREIEHSAGGPALLGDSVH PPQPLARVLSPPLPGASRACWL LRVRGPPSPRPPGTAGPQAPH AAPVPARASPSTPPLVHLTNDV LRVKVKAFFFTLHK
24056	54424	A	24194	192	818	SWCLSR A VVGDSMTSEVIED\E KQ\YSKA\KTYWKQIPPTVDR HA WGE GP NKTGTSCALDCGAG IGRITK RLLPLFREVDMVDITE DFLVQAKTYLGEEGKRV RNYF CCGLQDFTP\EPDSYDVW\IQW VIGHLT\DQHLA/ESFLRPCKGQ ASAPNGIIVIK\DNIA\QEGVILD D\VDSSVCRDLDVVRRH\CSAG LSLLAERQENLPD
24057	54425	A	24195	1	233	FFFFETESRCVARLECSGAISAH CNLCLPGASNSPASASQ/CSWD YRCVPSRLANFLYFSTDGISPC WPRMVSNLLTS
24058	54426	A	24196	240	476	LLPQYRRVLLIYSGIQLLPGLGL RRRMCPGIYSFLDFLVYLRRG VYSIL*W*FVFVVLVPWFSAPS GHLRSSLCLF
24059	54427	A	24197	288	677	NLPEDVVPDDKPHQPLLRAV\C LFVISKDLFLESPFESPIWRMYP NSTVHIQRLELALLC/CHCPRAL PASAHSCHSLERGLPICKE**CM PCSEYTIASQRPAGGA PAILPEC DSRRRTTQATSEPGSHI
24060	54428	A	24198	99	399	LLCHGFEHPPLAQRSL LPIV*S LLLSTRQSHSPSSFVPLLARSCG SWVSPAEEAEPQILQKGKCSCL IVPLEALCQRGTRLSLWLPLTFF PSFQLWPV
24061	54429	A	24199	1	586	LSFFK VFSFFAIGSNILFSSEKFII TDHLKPSSPTCQSHSLSSFVPLL ARVAFRWGFGVDFLSFV SFPSN SQDPQLQVCVGCWRSTPDRLP GYHQRGSGGCRTADIIEPQMLR LIVRLEVLSQRSTRPQRCQ\SA\L LGGASQLGCC/GVRDLLEEAVC PFSDL/KLHAGKTTLFKA VRQ/ SHLSLQRLLSFVCLCPT

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24062	54430	A	24200	1	822	
24063	54431	A	24201	1428	1801	RSAGIDPE*FFSG/PRRIHTASCL PSQRSSNRACSSSVTRIVSILSRF IGIITPMNRNPRFWRNNTSWTR MNRQTSVNRFTTLMMSFTAAA SRVSVMVTVKTSITCSSRRSQL VKYHLSISTQVL
24064	54432	B	24202	1	2040	
24065	54433	A	24203	176	564	AWEPKWYSTTATRTHFWEMRS RSIMSTTKAFSTSNSASDSLEEP SSRKTRSSLLQ*KSCNGGSEM SSTYRVVGLTGAALSASALNSLI DSRSNR*V/FSRNTLANITRRNQ LKMLPAPDPDGSSGSPFQ
24066	54434	A	24204	1	774	
24067	54435	A	24205	1	1807	MPLRAFPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIAGMAAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPAL QAMLSRQPQFDHWTADRHD LCRLGEHMERVGMDCCRPIPC LPPRVAASRCMEPGHLDLNGSRR HLANGFTTPRIGANQFLRRTVN AQTNPWNQNSIASAISSSRTRRIS GSVGSWPRSGNAEV SALHHYV PDLHRRMLLATLWNTYICINEA LALTLSDFSLVPPHPYRQLFTLT TFHNRACSSSVTRIVSILSRFIGII TPMNRNPPYTEASVTKQEKTAL NMARFIRSQLTLLEKLNEFDA DEQADICESLHDHADELYRSCL ARFGDDGNSYDHDYAKLACLQ VEGRGGGTFAHELLAVEYAGW ISPAFRLKVMHWLMNRMLDAR NRDRYKQWKQDFFHDSYNRQS AGHILSQCANLAATTSEYFIHKP HRLIAETGYSQSTVVRAFREA VNKGILSVEIVIGDHRERRADL YRFTPSFLVFAQQAKNALIESKS KISSAAVKVRLLAPISPTSPMG KIGLATSGS
24068	54436	A	24206	291	851	
24069	54437	A	24207	2	694	
24070	54438	A	24208	2	331	HLSTIEPEDYNLLFRRVSLKLSV WLPTWQSKSNGWSKKCLWMH LKSNPLNALLPPAGF*SATMPK CSAWAKTISSPGCVITEF*SQPV NAGTSPNKNTYLVGISPLKKP
24071	54439	A	24209	1	4455	

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24072	54440	A	24210	698	1088	LTSKFIAAVCMRRISLCGKGSA QNTDSGIAATPCSCVSD*QNSTS SRIRM*PWMCPCPMKRKSAT*N ITLRC*RAAPPPISSRVRK*/MSM Y/NHLQSAECGGHRPFPVPQEE SILLLLHLIANRSSACHSIR
24073	54441	A	24211	1	1902	
24074	54442	A	24212	1	2898	
24075	54443	A	24213	1	2604	
24076	54444	B	24214	1	1254	
24077	54445	A	24215	1	2946	
24078	54446	A	24216	698	1285	RFWRNSTS WTRMNRQTSVNRF TTTLMSFTAASRVSVMTETA MTMITPSLHACRSKAVAAALLP MNCSLWSTQAG/CSP/DVSAEG KPDIYRLSNRKITT CYSAES/LL KLSVWLPTWQSKSNGWSKKCL WMHLKNSNLNALLPPAGF*SAT MPKCSAWAKTISSPGCVITEF*S QPVNAGTSPNKNTYLVGISPLK KP
24079	54447	A	24217	1	1986	
24080	54448	A	24218	1	2262	
24081	54449	B	24219	1	1014	
24082	54450	A	24220	1	1155	
24083	54451	A	24221	5	386	
24084	54452	A	24222	1922	2146	SSSAGISCWSSSPTPGSIPSRVGS AAA*GWTTSRSSSTGSANPSASR KPAAAIRASMPPNCRSGEARWP LWSGSL
24085	54453	A	24223	1091	1435	
24086	54454	A	24224	1	2919	
24087	54455	A	24225	1324	1502	
24088	54456	A	24226	1	2901	
24089	54457	A	24227	5	253	
24090	54458	A	24228	1227	3031	

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24091	54459	A	24229	1	1940	MNRQTSVNRFTTLMMSFTAAA SRVSVMVTKTSDTCSSRRSQL VCKRMPGADKPVEGRGGGTFA HELLAVEYAGWISPAFRLKVN QTFIDYRTGRLQPAIPQLPPEAL RLAADLAEQKQRLEQKMLMD APKVEFAERVATASGVLIGNYA KVLGLGQNYLFTWLRDNGILIA TGERRNVPKQEYISRGYFTLKE TVIDTSNGSRSISFTTRITGKDVV RTTSIVMLAKVTFLSCITMSDFT FSGYELACFVTHSGLSRSAGHIL SQCANLAATTSEYFIHKPHRLIA AETGYSQSTVVRAFREAVNKGI LSVEIVIGDHRERRANLYRFTPS FLAFAQQAKNALIESKLKISSA ATKVKAVLAKTLALFNFLSTPP CQNDTPSPCQDDVAIKNKKSQ VKTKRSVSGGAGTTSLKKLTS WIAKAKAKADNLRLSKKRTQK HEFKQKVEAAARKYAYLKNKR SPDIGGISNFDNLPHCMTVNEA LNAVLAKNKDNEQWGAVAGA YIADITDGEDRARHFGLMSACF GVGMVAGPVAGGLLGAISLHA PFLAAAVLNGLNLLLGCFLMQ ESHKGERRGELLKIVVLPGDHV GQEITAEAIKVLKAISDVRSNV KFDENHLIGGAAIDLQGGGGK PRCVSKSLMLHCTR
24092	54460	A	24230	1	1230	
24093	54461	A	24231	1	799	MKPRTYTVSVTAVKDGVSGVC SFRCSDVSRVSSFQWVRGLADF RSEAADLHNNSGAQLASPIGSRT GATSGAPCQSRTHAPALLSLW AVDGTGRHGAGGSTRRQGSGG TQEPMVAGKAQA WRAAGFSG SGDGVGVSVLVPWGGTCIGSFR QANSWISGGAFSDAGCDSDR GKDWNLSLEGSEEERKMWESLE LPRDLKSSEDRKMWESLELP LLNGFDQNAD\TICTMKSRLRW SQMEMKNLLGTGVNVTLVML* QRDWRHLLV
24094	54462	A	24232	416	775	
24095	54463	A	24233	548	882	PGGHQYPPCHLEEKETDLPLLY TAVEEKGLSYSIIPGSLVEKPLT STNSSGTPIQSNITSL*IPLAGIMS MAASQN*AI*WPLAPTMQSFTC TT*RLS*SHRRSWWHRGCT
24096	54464	A	24234	144	570	

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24097	54465	A	24235	254	1117	LSRMKLRTLVVSVTVLKDVS GVCSFRYSVDVSGVSSFQWVRG LADFRSEAADLRLGLKLQTFVVS VTPHKGSVDPKSDQQRDLLQR VKEQNFRNVKGDPAAALAHEDD VNGTESGAPRKHGDRELDDVV ITNPHIEAILENKDWIEDASGLM SHCIAILKICHTLTEKLVAMTM GSGAKMKTSAAIVSDMIVVAKW NSPRVDDVVKS\SMYPP\LDPKLL DTGTTTLLLSV\SHLVLVTRNA CHL\TG\GLDW\DQSL\AAEEH LEVLR\EAAL\ASEPDKG\LP\GPEG FLQE\QSAI
24098	54466	A	24236	472	844	RTDGVLVWMSFLFVSPSNSQD PQLQVCWSLLEVHSR\PC\PGYQ QWRLLCPHEITGESMSKLHIIQK YTSSCCLFKSS\SERGS\STPCPSW LGS\GEGLSTLHATDFSFSAAPMA QRGKSSLV\SL
24099	54467	A	24237	206	456	
24100	54468	A	24238	50	392	LGLLPFFHRCPTQRGGI*RGSLA TAALLSCGGLC\PGVGS\SRHLC\LP PVRGKRPTQASVMGDA\LPPTK LECP\RSASGCCAGSDNF\KPV\DL S\LSSMGLG\STELDHLAPWLQP PFQG
24101	54469	A	24239	1	204	SFSVQFC\SLVGDPLG*SSCDPLE EKRC\SGFWNIQPF\CA\GFS\PLW DYLSLVFDV\DDLQMRSLSGCPF
24102	54470	A	24240	1	375	MCNAQVLEYMGKSSLLTSDL QLVRD\ALRSLRNSFS\GHD\PQHH TIDSLEQGISSLMERLHV\METQ KKQERK\PP\LV\PRQT\WVWSGP PANSNRPAAE\GPDC*KEN*RDA LRS\LRNSFS\GHD\PQH\HTIDSLEQ GISSLMERLHV\METQKKQERK\PP PLV\PRQTGSGV\DLQQ\PTDLQ LRDLTVRRKTNEQKGIA\ASTK RT\STPKPHL
24103	54471	A	24241	1	674	MV\YAC\SPS\Y\LEAEVGGSL\SL VEATNPKNSSKKFLDLISEFCK VSGYKISVHKSV\LLYTKNDQ AATQ\K\N\LIP\FTTA\KQFKYFGI YLTKEEERLKPSRKKITK\HTK KRTASLILHAMICSQIPKQQNE KYQVPQFDQ\STIKNIESAKGLD VWDSWPLQ\NADGTPPLV\PRQ T\WVWSGP\PANSNRPAAE\GPDC Q\KEN*QTERNSINIKKDIHTKT PLCI

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24104	54472	A	24242	1676	1768	
24105	54473	A	24243	270	471	PSREYQDANPWLKWikYsvrt LNKSDCYASGYK*ACLLCSVYS HGKAAGECTLSAGSKNGLAEVI KK
24106	54474	A	24244	23	200	AQMKAHGRSRSS*RCVDEEHWR ACRAQEPPCSQSQRERSKRTCR QGTVASKVKCHSEAR
24107	54475	A	24245	3	270	ASTSHVPQPICGLDDLAIHSAV RLNRERVHSTAVLP*EYTKQRR QGHL*PDYKKEGAATNEDAL LLRWERGRGARLHIPGCKAPQL
24108	54476	A	24246	135	275	
24109	54477	A	24247	365	583	
24110	54478	A	24248	2906	3114	
24111	54479	A	24249	108	405	NLHTPYRPQLGQGEPLDDYV NTQGAS/LFSVTKKELGAGSIEE CAAKCEEDKEFTCRYFHCRCTF LSIPQVTSSFLCFPLPLPLKSSK LLANRDKYRM
24112	54480	A	24250	1	386	
24113	54481	A	24251	1	808	MSYSQCVSDPKAHGILPGYHC WLFRDQGLLKSQHVINPAKAST GFLQDTLMVLEIKTTIRNYYK HLYAHELERLEEMDKFLDTYT LRLSQEVIDSPNRPIMSSKIESV KGYTHQQFCHKSTLNKGDRV DNLTCPYCCVWFPLAGTGPHI LYLSRLVSNLELFKRGKGRGEQ RKEEVTCGMLRKSLVTSDELPEP GGVTSEGCTAKVTACSSLWE LCHREVLTPTYCPKDTCRKWLE TPVRRSCPVRSSRISTCLRKKFG HILAEQLSCA*RCL**FL/YGCFY FQDHECVLKKEESSTSFGRINHV LTLKEPLVPE
24114	54482	A	24252	833	1245	ANMFPAFAAVAAGAATEAAA AAAAAPAPLAPARRAAAARG PPLPRLP/WSCAEVMYHPQPYG ASQYLPNPMMAATTCPYAYY/RA GAPTWPAGESPDGQPAGGGGE GHREYRSGARRRPAGTRGAED ALGSAGASLSRKP

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24115	54483	A	24253	145	766	TGCIREKFHLPEGSLLIVSSRKHLQRЛАFQAKVSSMMLPLQGAQMLQMЛЕKSLR\KSLPRNPLKVYGTVFHINHG\NPFNLKAVV\DKW\PDFN\TVVV\CPQ\EQDMDRWTLDHYT\T\YQIYSKDPQNCQEFLGSPELINWKQHLQIQSSQPSLN EAIQNLAAIKSFKVKQTQRILYMGRLETAK\ELTPFLAGNQRILSP\SGWAKPKAM
24116	54484	A	24254	215	550	VGFRSCLVMSGRGKGGKGLGKGGAKRHRKVLRDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFLENVIRDAVTYTEHAKRKTVTAMDVVYAL\KRQGRTL
24117	54485	A	24255	3	292	TLLNLAAAHCSGPCLLWFQLSF RSPSTS AVGR CRRPSADFHP SRS SRVSAVLLIQ/QRCPLPILIQLKA CHCSCTAKWLGSSPKPETFFEIIHPSPS
24118	54486	A	24256	1	789	
24119	54487	A	24257	3	256	TLLNLATALSSGPCLLRLLELSFHSPSTTA VCCRHRPAADFPPFGRVSSLLLIQ/QRCPLPLLIGLKACQCSAAKCCVRPNRAEQ
24120	54488	A	24258	3	212	
24121	54489	A	24259	2	491	
24122	54490	A	24260	20	272	
24123	54491	A	24261	160	876	
24124	54492	A	24262	623	796	GANSWNLTGT LAVKAGTVENPI*VFATHVESAGPR*LDPRTGSLAVRTKGRHW DQGA
24125	54493	A	24263	242	659	TSNSPPQTRPHVCHGPRQYLLQLSSRDL EFLVQIAVRSCLC PGLR\IRSPVFAVASTSTFGTLRGKVV KDFGFVFPFWGQPCLCPVEER ALSCQGPVVDSRCPRCGHEGMAYHTQQMRSADEGQTVFYTC TNCKFQEK
24126	54494	A	24264	66	238	
24127	54495	A	24265	2	278	
24128	54496	A	24266	168	565	TENFRALSTGEKGFGYKSSCFHRIIPGFMCQGGDFIRHNGTGGKSIYGEKFDDENFILKHTGPGMLSMANAGPNTNGSQFLICTAKTEWLDGKLVVFGKVNGM NIVEAMECFVSRNGKTGQKITIA\DCG
24129	54497	B	24267	20	88	
24130	54498	C	24268	183	254	

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24131	54499	A	24269	412	590	KSGLATQG/GRRRGWVFLAPQ KGGEVETQREGVGVLAPSPE KRDPLRVKDQGRRPCVV
24132	54500	A	24270	550	852	
24133	54501	A	24271	207	381	
24134	54502	A	24272	412	589	KSGLATQG/GRRRGWVFLAPQ KGGEVETQREGVGVLAPSPE KRDPLRVKDQGRRPCVV
24135	54503	A	24273	191	235	
24136	54504	A	24274	95	375	AEKIWEGVSQRALGQSSRGSGS GCQMNPLSGRPQVVCFFTAHM LTKKREEGASMLNMPCFQ*KE EMIQANLGPPIADSSHCLGIEGPP WAPLTP
24137	54505	A	24275	144	293	WQVPLFWQPFPEPLELWPKAL* LTPSQIFSD*RLKTDAAARSPRKP PAPR
24138	54506	C	24276	1	909	
24139	54507	A	24277	1	1744	MGCLGTQRAPRAFLLLPLPLHF AQLSNLTQLQAAASLSMVTHR SSGGGGERGATAAGTEQGGAC LAASLLRGLWDAGEVTPIRVRV R PYDPFTLAPLHEHSEAQCVAS PSLTVTKEKSLLPKSLLAGSREV ARSRALCHGQARPPPRPQVTQQ RTQLQGQRILQWRPATEGPHSP RRGSDSAKGTHPPTTGTCPPRR RQGAGYSRYNSGESRRRLGRQ QDLVARSDEQRDPAPATRRED KMI EELQPFG EHRPRRSPSQGC DTLFQALWFLASPSFQRGGQLQ VLALCKAAAGPGAPQA ASTAG TREHGYAWKLGDTRNHRALK RKSQTWLRRFPAGCPDVCSAL ADLRAFMGLRGE EVCADWSM GGHGS GECRRGTGGQRAVVPK SPVQEKGKEPLSLLQYFMVDEK ERFLRITSEHEDNDNSNNSSNHS SINETKETCFIHEPKTPAPVTDW EGSLPLVFNHCRDASLIIHSCFK GVRPHRDACLG/RFTLSGK/FPL SWGRGKYPSTPSPLAASPTFL GQGQELVTSARNLTTPRRNAC GPGFLLSHVPSVRDPTGNRTVQ LTWQPLPEPLELWPKAL
24140	54508	A	24278	2	120	QSSAAKPRTSKGKGSVREPWAR VPGALGVAAR*AEQSDFQ

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24141	54509	A	24279	1135	1483	ILTMTGSLSTPSNAVIEKV*VC CSSLSTG*SKV/QVASNTSLCDG ED*GVVIQKKVKLWVFCIFYVL VQSYY*R*SQIETVRNGCSHW GRFQDIALITGHCKIWTLLIVFIQ YFNV
24142	54510	A	24280	1	860	ATTGGTNRDDIMRLDDTVHV VIATPGRILDLIKKGVAKVDHV QMIVLDEADKLLSQDFVQIMED IILTPKNRQILLYSATFPLSVQK FMNSHLQKPYEINLMEELTLKG VTQYYAYVTERQKVHCLNTLF SRLQINQSIIFCNSSQRVELLA KISQLGYSCFYIHAKMRQEHRN RVFHDFRNGLCRNLVCTDLFTR GIDIQA VNVVINFDFPKLAETYL HRIGRSGRFGHLGLAINLITYDD RFNLKSIEAQ*TEIKPIPSNI SLYVAEYHSEPV EDEK P
24143	54511	A	24281	848	1218	PMQRKSMLKISVS/PVSVQKFM NSHLQKPYEINLMEELTLKGVT QYYACITELQKLAETYLHRIGR SGRGHGPGLAINLITYDDHFNL KSIEQLGTEIKPIPSNI DKSLCG AEYHSEPV EDEK P
24144	54512	A	24282	241	477	
24145	54513	A	24283	38	208	MTAGAPPPP FET\PEGV*GNP TCSGG*EDASGSTRSQRHPVGL PVSCALRACHLK
24146	54514	A	24284	794	1455	AQQGGTSKRRFPQDGQQRAG LACSRPPGPGCGFQAPAGERY PNIKPHPTSVAPLVL CICYLM/P MLPWAWSYWRGARRPSRHPG AFPCSVAHQCPSAARSPTLRQE DPEKGSQASSFPTGPSPQSMVD RCLKG PQLDVS RKQL SLPQTGL RPVL VNQL SKKPT GYPQT QI W VLMRDTG KD TD TEE KEGHAK MEA EIGV MYP QE HLE PP ESGRA KGEIPL
24147	54515	A	24285	90	354	QSPGVHQLSRFVS*SYSERP*SL LVSTRYHTRALH**HYADSIQ* ARSSKHTGLIGCTVP*RGFPRTH SFYSRKREPRRQTSSFRGIL
24148	54516	A	24286	236	520	TACFLTHVAIKWVMHSSIPSSN GGGIY MIGLKAQVSYMRKWLK SPWSPLLSPSLHRWPHGKFPM IS*QRKRLGPGSQMV LHDMQ APPKSQL

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24149	54517	A	24287	16	278	FAQAMKPHLVQQLQLESPLG* AYDNPLSFSKIHLSDLHKPVL*L GDSNDVLGTLESMSAQSQCPV VPEMSDHLPPMHSYPGKRPEV
24150	54518	A	24288	74	168	LGKCLFLHSCP*APPEAICLQLP LLSSPNGP
24151	54519	C	24289	92	564	
24152	54520	A	24290	1	876	
24153	54521	A	24291	71	282	PLVTQVVFRLFPTNSSL DLLQ/S PSP/GSGPHSNWQPGSLDKWA GVKHPNEECAASKIQTGPPCVV PLPWL
24154	54522	A	24292	81	1054	PRLFSDCFPTTAWTCCRAFSC SGPHSNWQPGSLDKWAGVKH PNEECAASKIQTGPPCVVPLPW L*EEPNAAIYPSPVSPVCFLLA HWIQSA*CHQCNGPVWYLVEV KSNQVLSK*HYDTKPE*YTPY GQEWRKGHLPSQWPHTRYQE MY*FAQAMKPHLV*QLQLQSP LG*AYNNPLSFSKIHLPSPHGSH SEPL*GPTRTL*V*L*L*KQTGM LAVAPEENQHYLAWQLPQGRP SLLPQAVQGLSPQTKVERLMA ASVGEGLPILGMEKLF/PSGK KD*SGFTSSVSPASSGSSHTSPF QVAGSHSFPIAFTLTVDTW
24155	54523	A	24293	5	88	
24156	54524	A	24294	779	1041	PPLSSPSGP/DEQSD/LWWQQSIP LHQETVKVLH*MGPVPCATQL DKIHQQGFSDPYRGAVLLASG WCPKRPEIPEEGATTHLCCFPAS
24157	54525	A	24295	248	3714	
24158	54526	A	24296	4177	7804	TFQESRFEQGFQKAFILELVDA EDPPDEEEEASSIFSSSFHFLFP SSSSCFSFSSSSSSLLRSPGDKD MPTAGMPSLLQSSSESPQSYPE GEDSQSPLQIPQSSPESDDTLYP LQSPQSRSEGEDSSDPLQRPPEG KDSQSPQLQIPQSSPEGDDTQSPL QNSQSSPEGKDSLSPLEISQSPPE GEDVQSPLQNPASSFFSSALLSI FQSSPESIQSPFEGFPQSVLQIPV SAASSSTLVSIFQSSPESTQSP
24159	54527	A	24297	145	219	

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24160	54528	A	24298	191	1075	QPKVSRHCQTSPGSYLYSLQSG RWTTGKPLQQTKSVYLSFHH HHFQNHRHYLHHHLYHHHH YHPHPSHHHHLHCY\SQHHHHH HHHHHHHEHHLCRHQKSTQVE YSVFAERENDLGLNLTGDEAL HDNGTTERVSGPPAGYLYRAD YAIGLQPMPRLGRRTPGAGGP HSRAPELAYLQKLITSPATLPFV YLETGGWSPRDAHRVDNFDM GPRENMGSVWEKSFLTRNPSK SSYIADKNLIYLYASECIGRQSQ KARASKSGVQAEHPYITGAIKD DTRAIVKTRDLANRLK
24161	54529	A	24299	155	381	LICTSFKILSRFLCPSSL*SSSSQG ACISKLLSVLTYAHLYFALEKE VLTFLSRAIVSSSTLLTHGVAHS LTLFH
24162	54530	A	24300	1052	1338	TGWDGPPANCSSPMEGDSNVH CSCVCCCSCFGLLL/CAIHCCCA PPGCSACGAATLLYSAPLGSSA YGIALLSPFHHVRMMLSTKQEV GLHQTLNLP
24163	54531	A	24301	1	723	MLNVQALVVVMVMCFMWASL WAPGGHPSAGNISSWVSGLVSF PEWSSWELVVSVVGWAGKLW LHESLLTNLSCGLLVVLVALV FDEWHPWSGHVAEACSTGYWS TGGIWFHEIAAP*DCSSSPAME QSWMEND\DELIEVGFRRLVIT NFSELKEDVRTHLKEAKNLEKR LDEWLTRINSIEKTLNDLMEK TMARELRDACTSFSQFDQVEE RVSVIEDQMNEMKREEKFREK RVKRNEQSLQEI
24164	54532	C	24302	295	430	

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24165	54533	A	24303	811	1947	QTERNSININRNGHQHQNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKNQSTSSPPKDCSSSLAMK QSWMENDFDELTGAGFRLVI TDFSELKEDVQTHHKEAKNLE KKIRQM\VTRINSVEKSLKDL ELKTMARELCDACTSFSSRFDQ VEERVSVIEDQMNEMKRKEKF REKRVKRNEQSLQVIWDYVKR PMLRLIGIPESDEENGTKLENTL QDIIQENFPNIARQANVQIQEIQ RTPQRYSSRRATPRHIVRFTKV EMKEK\MLRAARQKGRVTHKG KPIRLTADLSAETVQARREWGP IFNILKGKNFQPRISYPAKLSFIS EGEIKYFTDKQMLKDFVITRPA LQELLKEALNMERNNNWYQPLQ
24166	54534	A	24304	1	2394	
24167	54535	A	24305	1902	2413	
24168	54536	A	24306	2	610	WAPPALIHIRCMPEAYNFPRKPL SLIPSAIQSNELIIMNGNRALNIQ LLKRYQCTLDIYKQTSMLNC YEGTVITPSHIQYPCLSDSYGLY DIGIRNTDFLKGELEMNIRPLHD RVIVKRKEVETKSAGGIVLTGS AAAKSTRGEVLAvgNGRILEN GEVKPLDVKGDIVIFNDGY\G VKSEKIDYEEVLMSESILAI
24169	54537	A	24307	1	801	
24170	54538	A	24308	1268	1579	TAIWSPSKSALYAAQTSGCSWI ALPSISTGSNAWIPRRCRVGARF SSTGCSRITSSRISQTTASSRSTIF FAALMVVARPRSSSLP*MNGLN SSAIIFFGRPH
24171	54539	A	24309	583	796	IHCIDIRFSATPAGGEFWQYIAS RQSIFHAIVETGHALIQPSSVPG LTPAMKAVATTSH*TVESCFRS ASR
24172	54540	A	24310	1	313	MPNVDDVGEMVNTMSASRSY QANVEVLNTEKAMSIAVTTTDP TNTGVTTSSSLTG\SNAAADLQ SSFLTLLVAQLKNQDPTNPMEN NELTSQLAQISTTLRAY
24173	54541	A	24311	54	323	SASAQVSALSIHSAAFQNEYLSP CPN*RLV\SAFTNSSRQSG*PEK SVSQTPVITASAFT*YADIAASV RNKILRPGTNVFGDTIGFRVQ
24174	54542	A	24312	816	866	
24175	54543	B	24313	1	985	
24176	54544	A	24314	1828	2505	
24177	54545	A	24315	1	1938	

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24178	54546	A	24316	4201	4668	
24179	54547	A	24317	269	503	
24180	54548	B	24318	1	1702	
24181	54549	A	24319	829	1584	
24182	54550	A	24320	1238	1926	IQAAYNRIAPSSSPKFPRACGKP CLGERGRIRGPSPFGLINRPST PDPTITGVSTT/SSSSLTGSNAAD VQS/SFLTLLVAQLKNQDPTNP/ MENNELTSQLAQISTVS/GIEKL NTTLGSISGQI/DNSQLQASNLI GHGVM/IPGTTVLAGTGSEEGA V/TTTTPFGVE\WDGTL/TDGST APNGSYNVAIS/ASNGGTQLVA QPLQFALAAERFCALSPGAPYR YDTWVRQWVASP
24183	54551	A	24321	487	1509	FYLQGLRQQPQVRQPLNIGVTA QGVNAAACHPHIAEQQLDHRH RTNVLRTNGVLRPAEGIQERGS FIVSTGFCDVFADFQERVFWR TDVFNHIWRVAGNVLFQQVPH AARMLQRGIAFGEAVFVQFISP GGFIVLAFFRVVAGEQAIKFAVI LTHDQAGGGIGFGVFAVEFFIV QQVQQYA*QESNVSTGTNRGIV VSYRRRTRKARIDHNQLRAVV NFGFHRPAEPDRVSAHHHDEV GVLDVDPVVGHRKTFDIWHD DQFIDQRVRRFSGDNRLQDRE QVGLQSANNSPIDKSLFRGINQF QLYAAFTAQDVNIDIFKTRQQF FAVIGQTTGVQYQK
24184	54552	A	24322	377	749	
24185	54553	A	24323	140	298	
24186	54554	A	24324	342	1094	MGAPWLHRPRRALQRWRLGS GFSCGSGLGLQENNGRPVMV LALSTLPRRPTRCGCEFYCLIKP GFRLMKSVKMEIRGLWAGGE DKIAVPAEPRSAGPERTLSDLH NESIF/ITGGGSGLGLALVERF/IE EGAQVATLELSAAKV/ASLR/Q RFGEHILAVEGN/VTCYADYQR AVDQILT/RSGK/LVNTPAETLE TGFHELPNVNLGYLLGAKAC APALIASEGSMIFTLSNAAWYP GGGGPLYTASKHAATGR
24187	54555	A	24325	1	1785	
24188	54556	A	24326	2	1760	
24189	54557	A	24327	2437	2679	TFQYIGQPHGDEFPHVAPVKHG DKLGEGKHNHDKSRHILFHRFN H*MR*IRLTNCAGSDAISQRD NKEKKNDQWHDTFNKG

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24190	54558	A	24328	3	415	
24191	54559	A	24329	1	1932	
24192	54560	A	24330	1932	2117	RAISLGRTAAGYLNSDVAQRA ASGADPAGDFVVWH**IRKNLS GGARYAIPHLYQHLAWHP
24193	54561	A	24331	1	1017	MYREPPARGVEPNELHACRSE DKLSEDAFDDQCTGANPRYPLI SELKQILLDTYYGRDYVEDRLS FLLAVALNGERLDGEMSEGK LVMPFRHVSDAFEQTRETIGVR GNNAINDMVRQRLLN\RFTSEQ AEGNAIYRLTPLGIGITDYYIRQ REFSTLRLSMQLSIVAGELKRA ADAAEEGGDEFHWHRNVYAPL KYSVAEIFDSIDL TQRLMDEQQ QQVKDDIAQLLNKDWRRAISS CELLLSETSGTLRELQDTLEAA GDKLQANLLRIQDATMTHDDL HFVDRLVFDLQSKLDRIISWGQ QSIDLWIGYDRHVHKFIRTGID MDKKPRPSRRCL
24194	54562	A	24332	5	220	GLSWLNYC*ASTLTISLRCATR AVPLTRIRCPRLLPSRERTAL PCIYVKIAVTLLTATCASCVR WIPA
24195	54563	A	24333	3	180	
24196	54564	A	24334	229	564	PGFKPRHSSWQRLPSLGHPLY GSSVFTLLNATAHSSGPCLLQ LELSFHSPSTTAVCRRHRPTADF HPSESGRVSHVLLIQ/QRCPLL WIRLKACHCSCTAKCPGSSQLS
24197	54565	A	24335	148	404	
24198	54566	A	24336	213	1306	SCEHSVAHGRGIMDLSSLKALS EADAIASSEQEVRLQIL\LEEADR LQKEVRVDGLGSVLIRLNESTG PKVMICAHMDEVGFMVRSISRE GAIDVLPVGNVRMAARQLQPV RITTREECKIPGLLDGDRQGND VSAMRVDIGARSYDEVMQAGI RPGDRVTFDTTFQVLPHQRM GKAFDDRLGCYLLVTQLRELH DAELPAEVWLVASSSEEVGLR GGQTS\TRA VSPDVAIVLDTAC WAKNFDYGAANHRQIGNGPM LVLSDKSLIAPPKLTAWVETVA AEIGVPLQADMFSNGGTDGGA VHLTGTGVPTVVMGPATRIGH CAASIAACRDLHMQQLLSAFI HKSNELGGVRLRIQICRDGNE
24199	54567	B	24337	1	1075	

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24200	54568	A	24338	438	1462	QIVQCLDVPSYTFIWFAVLDPIY GDSVSTGLVVAAIISIIVNAITIPG LYLLNPSSGADGKKNNSNLSALI SAAKEPVVWAPVLATILVLVG VKIPAAWDPTFNLIAKANSGVA VFAAGLTLAAHKFEFSAEIAYN TFLKLILMPLALLLVGMACHLN SEHLQMINTLASALPPAFSLKLIY CAA/ARLMCYTRTGTTSALITLT ETVTQKLTGSRPRISSYGRNLM WPLAWYKDNGKPHLCSQLETT RIHSTAAQGRSSGSLRRLGLAS PFYRQHDQARSEGQIPITRIPMG LAQRAPKGRAQPRGLTAPFTN GALGQPQGRGTSKQASQTRPR ASAWPHTPT
24201	54569	A	24339	30	177	GSGYQRCHNNAASDRLRSYRK QPAER/WLAPPIDSITSPPASRRA LILLY
24202	54570	A	24340	3350	3430	
24203	54571	A	24341	425	824	SISGSENAFCNAT\NHSGRYSQY GACLTSSSCRKGQLARRGLSYQ SPHAPADPAFPAAARRSPVFCCLS DDGGHKSPRDMSPDKPSRHPD QVALTRRIPSPPAVALPSVVKR TVHEGQGDDDESNPSPLOPDVH
24204	54572	B	24342	1	2118	
24205	54573	A	24343	1	888	
24206	54574	A	24344	730	1101	
24207	54575	B	24345	1	1992	
24208	54576	A	24346	880	1103	TMMRRLISRQPVLPLQKCFSVLI SNPWWRVFGGTGGGNQER/CRY AEEVAETRLCP*CRLYAEYDP GSGCAGLSL
24209	54577	A	24347	1	952	MITLRKLPLAVAVAAGVMSAQ AMAVDFHGYARSGIGWTGSGG EQQCFTTGAQSKYRLGNECE TYAELKLGQEVIEWKEGDKSFYF DTNVAYSVAQQNDWEATDPAF REANVQGKNLIEWLPGSTIWA GKRFYQRHDVHMIDFYWDIS GPGAGLENIDVGFGLSLAATR SSEAGGSSSFASNHIYDYS/NEN AND/VFDVRLARWDSPGGPLTG FPPSALACTSGVSGQKGVPGPP EAQVTATPKPGKEACSSIQV LNRGYRPPTFSYNTGVRSSARD YYPRRQRSISTNPSRRWKGKL NSRRCSTGNRPLVGAVS

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24210	54578	A	24348	805	1274	ASFATTRPVTKLAMRVAIFDSV VGQRYWGSAAASPEHSRFAVLW ILASIFR/DRIASLRVQATVKS*K MS*AWYWQGCFRNWKSSPA*Y QFFSPARSASSHFAGEPVSLHSP IALGYRSSESSSCHTSTASLSVH RDYAHHLGLRFDHSSSRRLCY C
24211	54579	A	24349	275	490	
24212	54580	A	24350	1	696	
24213	54581	A	24351	1	735	MFTPDYRSVSRVLGSGPGYASR MNQPDVMPDIPGKRFYQRHDV HMIDFYYWDISGPGAGLENIDV GFGKLSLAATRSSEAGGSSFA SNNIYDYTNETANDVFDVRLA QMEINPGGTLELGVDYGRANL RDNYRLGKGLSQGSGVAFDNE KFAYNINNNNGHMLRILDHGAIS MGDNWDMMYVGMYQDIHW NDHG\TK\WWT\AGIRP\MFKWT PIMNTGMKF/GYE/NVESQPG QNIRTIYLAKP*QPDVMPDIPGK RFYQRHDVHMIDFYYWDISGP GAGLENIDVFGKLSLAATRSS EAGGSSSFASNNIYDYTNETAN DVFDVRLAQMEINPGGTLELG VDYGRANLRDNYRLGKGLSQG SGVAFDNEKFAYNINNNNGHML RILDHGAISMGDNWDMMYVG MYQDIHWNDNDGHQVGGPAG IRPDVQVDAHHEHRDEIRYEKL NPRARDKTFVQFTSQNPDR
24214	54582	A	24352	1	3414	MIVQPLAIIGSHFDSIAAGNLR PIAVYGRNEITAIFASLKTMQQ ALRGTVSDVRKGSQEMHIGIAE IVAGNNDSLSSRTEQQAASLAQT AASMEQLTATVGQNADNARQ ASELAKNAATTAQAGGVQVST MTHTMQEIAITSSQKIGDIISVID GIAFQTNILALNAAVEAARAGE QGRGFAVVAGEVRNLASRSAQ AAKEIKGLIEESVNRVQQGSKL VNNAATMIDIVSSVTRVNDIM GEIASASEEQQRGIE
24215	54583	A	24353	1	2493	

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24216	54584	A	24354	1	1201	MQPALLIVLNKVRQEARRAR ACRIRRASGIVQFGKVRQLAA VELRQRQTPERFVLLRGTRQQA TGQRIVKTEQRVIIITQRSFRRPG EGRRINDHFRFPAHLPSIRPIGK HQTPFGISGHFNFFTVAIGDDI AQLDRIGANQSVLKGFNKFVV QYATDSMTSQGKGLSQGSGVA FDNEKFAYNI/SFNGHMLRILDH GVINWDNDNGTKWWTVGIRPM YKWTPIMSTVMEIGYDNVESQ RTGDKNNQYKITLAQQWQAG DSIWSRPAIRVFATYAKWDEK WRYDYTGNADNNANFGKAVP ADFNNGGSFG\RGDSDEWTFGAQ MEIWGLSRASGTLVTRA WRYK TTPTRHCLLMNHYAGEAAMR WKNYLKSTQVQLQNFANWP KYSLSTLFHFPFSKSC
24217	54585	A	24355	188	406	FIRSFDPSPVPSVLDRFFVLSTVF HSSSIFLVVIDRPSCVGEPSLF*V GGSCPTNSLYRCSGLAWYLMR SMD
24218	54586	A	24356	1	1798	
24219	54587	B	24357	1465	7841	
24220	54588	A	24358	174	3762	TLNDAMRREKCLARINRTAKS GVVMPKLVTWMNNQRVGE LT KLANGAHTFKYAPEWLASRYA RPLSLSLPLQRGNITSDAVNFF DNLLPDRTIVRDRIVKRYHAKS RQPF DLLSEIGRDSVGAVTLIPE DETQHHYESTLTITDEGEFVVFV GPSGCGKSTLLRMIAGLETITG DLFIGEKRMDNTPAERGVGM VFQSYALYPHLSVAENMSFGH ATGLAQHKEVAEVLPSSRICWI ANRKRSPPVSVSVWRL
24221	54589	A	24359	364	845	RPLLDHGSSPRLNFLRFWYVVH AHTLMRMTEGWAGFDILPYR WRRVIAFVVAFYFRHLIALLVV QMHFKLVKGNDVVFTAQLID STVQLIDSTTGTQFTHIQTQLM IQRAGTKCRKEDFRHWFVHHP WVL/MSPPSVTLYALFPDRSHR PRRDGSPDA
24222	54590	A	24360	781	1275	

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24223	54591	A	24361	1	1185	MDKFDANRRKLLALGGVALG AAILPTPAFATLSTPRPRILTLNN LHTGESIKAEFFDGRGYIQEELA KLNHFFRDYRANKIKSIDPGLF DQLYRLQGLLGRKPKSCGYVT TAPAARSYRLTSKFIAVGQKAL SSLNIIHIAAPHLLEALIIGESDTK NFASHDHAILIYKLEPTTGMLR TRAYIGQHMPYLCSAMGKIYM AFGHPDYVKSYWESHQHEIQPL TRNTITELPAMFDELAHIRESGR TMDREENELGVSCIAVPVFDIH GRVPAVSVSISLSTSRLKQ/PRQH RFRLRERQPAGGTTPAGTNSVT GGASLHHARCQRRK*KPYRPER A/ESFLPARGKICWP*AGTLTVC IMASASRLISGCTPDSTCWSTA HAPICRRRGRAINRCHCSS
24224	54592	A	24362	1	801	
24225	54593	A	24363	1523	1950	LLPA/AQKRRVDFLRATDFNAL MPGVVEIDGKNIYTQIIDLTTRE AVVNRPEVHRRYIDIQFLAWGE EKIGIAIDTGNNKVSESSLLEQRN IIFYHDSEHESFIEMIPGSYAIFFP QDVHRPGCIMQTASEIRKIVVK VALTALN
24226	54594	A	24364	281	997	LTFARLGIGTRKIGRLQSRRRKR CKAMGVDVNRVYSLDELVRG NDILFSATGVTGGELVNGIQQT ANGVRTQTLLIGGADQTPMAT LTEDDVLEQLDAQDNLF\SFMK TAHTILLQGIRQFLPSLFVDNDE EIVEYAVKPLLAQSGQIDIDV ALRLIYALGKMDKWLWYADITH FSQFWHYNLNEQDETPEGFADDM TWDFISNVNSITRNAMLYDALK AMKFADFSVWSEARFSGMVKT

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24227	54595	A	24365	263	1410	AMISRRRFLQATAATIATSSGFG YMHY/CLNSDAIALALGIEQRPDLI LLGGDYVLFDMMSLNSSAYSDV LSPLAECAPTFACFGNHDRPVG TEKNHLIGETLKSAAVITGMLNQ ATVIAAYANRPFELVGTGDLWS GQCKSASASETNLSRLVLAHNS CSKEVMRDEPCDMLGSHTHR WQLSVPMAPEPFCHVADERYV LGLNAFCERHIYTIPRGKGKRPQ TFAADLPGKGITVNPVQSTITEE TFQTLVSRALLEKLGYTVNKPS EVDDYNVGYTSLASGDATFTAV NWTPLHDNMYYEAAGGDKKFY REGVFVNNGAAQGYLIDKKTAD QYKITNIRQLEDPEIAKLVDTNG DGKADLTGCNPGLGFEGAINH QLGAYELTNNTVTHN
24228	54596	B	24366	1	2872	
24229	54597	B	24367	1	1704	
24230	54598	B	24368	1	1470	
24231	54599	B	24369	1	2301	
24232	54600	B	24370	1	900	
24233	54601	B	24371	26	856	
24234	54602	B	24372	1	1743	
24235	54603	B	24373	1	1410	
24236	54604	B	24374	1	957	
24237	54605	B	24375	1	2742	
24238	54606	B	24376	755	1816	
24239	54607	B	24377	1	1968	
24240	54608	B	24378	926	6441	

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24241	54609	A	24379	1	1739	MTWTHEAVNRREPLRGCEPNW DGDVKPAGCMISRRNELPYTLG LRIDMLVDLGTTPASLMGQSSVY NTTDRHSTHRMDGLEQLMQQA DFAADIAVVAPWDNWSPTAGR FGLIRLLDEQTAPYAWYTSPMH LMDEKCSCHRQRPVIGLNQPQ YQSGTIEVDNVSFAYRDDYLVL KNINLSVPSRNVALVGHTGSG KSTLASLLMYYPLTEGEIRLD GRPLSSLSHSALRQGVAMVQQ DPVVLADTFLANVTLGRDISEE RVWQALETVQLAELARSMSDG IYTPLGEQGNNLSVGQKQLLAL ARVLVETPQILILDEATASIDSG TEQAIQHALRRDCSPLIDHCDA DTILVLHRGQAVEQGTHQQLL AAQGRYWQMYQLQLAGEELA ASVQPLPNSDRRGSMKLTVII KPFKLEDVREALSSIGIQGLTVT EVKGFGRKGHAELEYRGAEYS VNFLPKAAYTGKIGDG/KIFVAE LQRVIRIRTGEADEAALYLWHT ATERDGPFRNFTAGAFRASLPH PARHGRRPILAAPFMPVNPSRLP PRRRHLASGRSLRFNCTAGDE TCSARSGERRSLVF
24242	54610	A	24380	547	684	

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24243	54611	A	24381	1	2208	MLLVSASVNAMSISGQAGKEY TNIGVGFGTETTGLALSGNWTH NDDDGDVAGVGLGLNPLGPL MATVGGKGVYTNPNYGDEGY AAAVGGGLQWKIGNSFRLFGE YYYSPLDSLSSGIQSYYEANAGA RYTICVQVFVVVMLIRNQLFTP VNTAIDGFATNYAIMPA YAVG EGVATHGLQFELMRTTGGNTQ HVFHHPLPLFAMWRYAAEMFP YQQMCQFVRYHFFNKSFTVfq QQNGIEANFIAFQPGRSGGSA LGRNVFGFRYQPQCQDKQYV QSRIHPEGVGVTQRVEHGQERC ANDHVQSSGTELMQEGVMSAS LKNQQGFSLPEVMLAMVLMV MIVTALSGFQRTLMNSLASRNQ YQQLWRHGWQQTQLRAISPPA NWQSGAAMLRVYHSNRLDVL EALMEFIVVERERLDDPFEPEMIL VQSTGMAQWLQMTLSQKFGIA ANIDFPLPASFIWDMFVRVLPEI PKESAFNKQSMSWKLMTLLPQ LLEREDFTLLRHYLTDDSDKRK LFQLSSKAADLFDQYLVYRPD WLAQWETGHLVEGLGEAQAW QAPLWKALVEYTHQLGQPRW HRANLYQRFIETLESATTCPPG YLRASLYAAIQHALASVREHTT LVVIAHRLSTIVDADTILVLHRG QAVEQGTHQQLLAAQGRYWQ MYQLQLAGEELAASKGHAELY
24244	54612	A	24382	2	729	DCSPLIDHCDADTILVLHRGQA VEQGTHHQQLAAQGRYWQMY QLQLAGEELAASVQPLPNSDRR GSMKLTVIICKPKLEDTVREAL SSIGIQGLTVTEVKGFGRKGH AELYRGAESVNFLPKAAYTG KIGDG/KIFVAELQRVIRIRTGEA DEAALYLWHTATERDGPFRNF TAGAFRASLPHPARHGRRPILA APFMPVNPSPRLPPRRRHLASGR SLRFNCCTAGDETCARSGERR
24245	54613	A	24383	683	1161	RTGHCH/SAFSFSTVLTSCSLRF SFLAHLQYLLRVAEPLPNSDR RGSMKLTVIICKPKLEDTVREA LSSIGIQGLTVTEVKGFGRKKG HAEYLRYGAESVNFLPKVKIDV AIADDQLDEVIDIVSKAAYTGK GDGKIFVAELQRVIRIRTGEADE

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24246	54614	A	24384	631	1149	FFGIKEQVITANNANSNRNKTDRCCRNWLEDHADNHCHKHSEVMPCLRRHTVGDRDKKHDTHHHQWGQ*FPYIIFWLVSPLIAISRSKVSTHGLRQRDFILLREASQSFRFVLRVYDVADHIAGKFTVHDLQFIGYHGGQAQLVAQVFSKESKAAGGNRHFPAQRFQLEHQLR
24247	54615	A	24385	833	1264	
24248	54616	A	24386	1	1632	
24249	54617	A	24387	2078	2371	
24250	54618	A	24388	1	159	
24251	54619	A	24389	530	811	RPGTGAAQVLNRRIKISRST*LTVVMGYWSIIPSVSLLKWDRRKSPKCSSLRVNISNTLLSTARRRKRYLIVIPALLVVRRCRPRGPAACG
24252	54620	A	24390	1806	2115	AAFQEIELAFQDPQCVGLLTAPMLMPLFLDQLILQCFFW/W/TNLERA*TSFSALFIDLQPPGYRTTTSKHKVSSSLIKGHVLLDHSFDLNTQLWISTNAFRFGN
24253	54621	A	24391	1476	1751	ALLLVSFASQRFISA/TVGNQNAGV DLLNLTLVGGIFVNNAGNFAVFTGDTTSITGRIIQFHRQQTNATLRF SITQTLECFDRDQRHVAVEH
24254	54622	A	24392	606	4519	EEVVRAISAKRNEPEWMLEFRLNAYRAWLEMEEPHWLKAHYDKLYNQDYSSYSA PSCGNCDTCASEPGAVQQTGANAFLSKEVEAAFEQLGV PVREGKEVA VDAIFDSVSVATTYREKLAEGQIIFCSFGEAIHDHPELVRKYLGT VPGNDNFFAALNAAVASDGTFIYVPKGVRCPMELSTYFRINA EKTGQFERTILVADEDSYAAKRLTDYPHQLSGGERQRVMIAMALLTRPELLIADEPTTALDVSVQ
24255	54623	A	24393	129	256	

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24256	54624	A	24394	1	1082	MAMSKVKSTITRESWILSTFPEW GSWLNEEIEEQEQVAPGTFAMW WLGCTGIWLKSEGGTNVCDF WCGTGKQSHGNPLMKQGHQM QRMAVGKKLQPQLRTPFVLD PFAIRQIDAVLATHDHNDHIDV NVAAAVMQNCADDVFIGPKT CVDSWIGWGVPKERCIVVPG DVVQVTALEIHAPDAFDRTAPI TWLADQKRRRTVKGRTRPCN RSVTVRPRRDAVIGRFYRHQS ITQKGLLMVMPGCAFPLWIDS ELNLTTFIDALFEGVSGITTTGAT VIDDVSSLPRAYLYYRSQLNFIG GLGVIVLAVAVLPLLGIGGAKL YQSEMP/AAI*G*QTHSPPGRYV TDTVDNLFFIRCRT
24257	54625	A	24395	49	281	ASDHRYLCQSQVPLRGIPACYL LQAPLTRWR/RIPPSRRICAAIDS AISRSPQRWLTAVCCGTVNFTN TCLLPDGVC
24258	54626	A	24396	737	1419	CIWRMYSHRLVAWRRCVKRR/ RYLTRFAKTRGVAIVMVGHVT KDGSLAGPKVLEHCIDCSVLLD GDADSRFRTRLRSHKNRFGAVN ELGVFAMTEQGLREVSNPRGR GKRFISPKKTPALAKFRRNLL PPKPGNGTSVRFRHSRICWMN PLPGAAWCILTLKKPISPGVQ VFPESFTPALARAFAGRSQACL VPAQNILHQKSQAWLFDFPEQE KELRELSAWMAGA
24259	54627	A	24397	526	1693	STTGIRSIAMSNPILSWRRVRA\ LCVKETRQIVRDPSSWLIAVVIP LLLLFIFGYGINLDSSKLRVGIFL EQRSEAALDF\THTMTGSPYIDA TISDNRQELIAKMQAGKIRGLV VIPVDFAEQMERANATAPIQVI TDGSEPNNTANFVQGYVEGIWQI WQMQRRAEDNGQTFEPLIDVQT RYWFNPAAISQHFIIPGAVTIIM TVIGAILTSVVAREWERGTME ALLSTEITRT\ELLCKLIP\YYF\ LGMLAM\LLCMLVSVFILGVP YRGSVLILFFISSLFLLSTLGMG LLISTITRNQFNAAQVALNAAF LPSIMLSGFIFQIDSMPAVIRAVT YIIPARYFVSTLQSLFLAGNIPV VLVVNVLFIASAVMFIGLTWL KTKRRLD

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24260	54628	A	24398	655	915	IAVNVTLAFNGGKQLR*STSLL CCQEGLAFAVNLRQHFRVQTIS FFFLPVLRFWRPGIQQAKKCHP APRTAKGIPQQVIRAMRLLFK
24261	54629	A	24399	549	827	
24262	54630	A	24400	472	626	WRFFRPRKDNRRTLFADGHQI AAQPGLNLSCRTTIF*IKRINTFP GRWRK
24263	54631	A	24401	333	617	SDQSETDYRFADGERHLENQPH AGQTGRGGAGPGCTLYQRFAQ LCEVSEVERSGCRTLSAQHVEQ NLPAACGGDDADGAVVHLWT TA*RTRIGTLRSGPKMNDSAISII TATDSGWKILLHMLS
24264	54632	A	24402	74	265	
24265	54633	A	24403	1	1005	
24266	54634	A	24404	1068	1185	SVAIRQASTGNRCQCLCPACA WA*VNADVK*SARVSRL
24267	54635	A	24405	1	2292	
24268	54636	A	24406	720	2496	RRAGYRKAADAMTTIVPEKLS REVGSHFHALDRRTAVHRQPVI SATTIVHEFLRCHQFPLVVCDBG GRMTPRAMFLFSSAHILMPLNY HNSHINTLFPVAGTLMVEPTES ESKVELDRFIDAMLRAEIDQ VKAGVWPLEDNPLVNAPHIQS ELVAEWAHPSREVAVFPAAL VTGGSRGIGRATALLAQEGYT VAVNYQQNLHAAQEVMNLITQ AGGKAFVLQADISDENQVVAM FTAIDQHDEPLAALVNNAQILF TQCTVENLTAERJNRVLSTNVT GYFLCCREAVKRMALKNGGSG GAIJVNVSSVASRLGSPGEYVDY AASKGAIDTLLTGLSLEVAAGQ IRVNCVRPGFIYTEMHASGGEA GRVDRVKSNIPMQRGQAEF AVQTFPVWRVAQHCAVRPFRQ RIGQLRDIFHLKGDQFTNPRKT GVTPQPPCSTYPDPSPPPVPAAG HIDRPALAPTFTPPIMCSKATVK PLSPSPPGTPDPASVLPFREQRA AVHRLRTVVTRHLLALRRDPF ANRHRQQDQRNGGFHHRQRHL HTGKTRSLHHHQFAALRQHPK TKQRRKQSRHREEDLHIFRHAQ
24269	54637	C	24407	49	186	
24270	54638	A	24408	470	811	
24271	54639	A	24409	1	1006	
24272	54640	B	24410	1	2793	

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24273	54641	A	24411	463	1258	CCRSSWCNSDSETGLQIVASYF EDRNGDSVLALRPEGTAGCVRA GIEHGLLYNQEQLWYIGPMFR HERPQKGRYRQFHQLGCEVFG LQGPDIDAEELIMLTARW\WRAL GISEHVTLELNSIGSLEARANYR DALVAFLEQHKEKLDLKEDCKRR MYTNPLRVLDSKNPEVQALLN DAPALGDYLDEESREHFAGLC KLLESAGIAYTQNQRLLNRYRLS ANLIENNLSLFDGEGIYRFYHPK PTKNAERENRQCRNDLFFRCGF
24274	54642	A	24412	221	832	TMAENQSTVENAKEKLDRLWK DGITTPGGKLPSERELGEELGIK RMTLRQALLNLEAESKIFRKDR KGWFVTHPRFNYSPELSASFQR AAIEQGREPFWGFTEKNRTSDI PETLAPLIAVTPSTELYRITGWG ALEGHKVFYHETYINPEVAPGF IEQLENHSFSAVWEKCYQKEPV VKKLIFKPVRMPGDISKYLGGS AGMP
24275	54643	A	24413	158	481	
24276	54644	A	24414	2201	2350	
24277	54645	A	24415	621	1830	AGWKRGGAGEPDQGLQA\EME VLENLQELKDLNQRQAHAEK FRKDRKGWFVTQPRFNYSPELS ASFQRAAIEQGREPSWGFTKN RTSDIPETLAPLIAVTPSTELYRI TGWGALEGHKVFYHETYINPE VAPGFIEQLENHSFSAVWEKCY QKETVVKKLIFKPVRMPGDISK YLGGSAGMPAILIEKHRADQQG NIVQIDIEYWRFEAVDLIINLCF MVTINNARKILQRVDTLPYLYH AYAFHNMRLERVLPADLLDIA SENNLRGVKIHVLGGERFSLGN MDDKELSAFGDKARRLNLDIHI ETSASDKASIDEAVAIALKTA SSVRFYPRYESNLRDVLSIIAND IAYVRETYQDSRLTFNIEWGKS SCCSPYVHPWAKLAAIYYRLQP HINDAF
24278	54646	A	24416	83	502	
24279	54647	A	24417	15	95	
24280	54648	A	24418	500	786	LTQRFGTVPLLQ\AYLYSAFFF TPEFLRPAPPLFSAAVLPEQRQR AQGIGGLVIRPTVELHQALQLF FGHQPKIQSLHALLRGSTGFQA SFRLPL

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24281	54649	A	24419	1	2914	MYYSHASCVADQYACGMHRT PSRTGRPRIHAPRQARLKPQVK VASKKRNARDKMQPPNEQQKT RAHACTPSSRFRAVVRTLTCPV VANVTRIFPRYFSNTRVLRRR KQARGTWWRLRHLHYVQPH KHTSYYIYRLYRVTVMSAQV VDTGIYEFTTRKHDIGTIELPNS EIRYHGNPAMSRRKPTPPNSP ASERATGPTTLLPPIRQRRYAA RHTSTIAYTNSTSDFEAPYNKA APIMRYTSVYCSLFSP
24282	54650	A	24420	2	420	CPYPENWRGKILARPLLFR *ASRFAGAGMPGRLIPTVPRN SNSGRLVSASRCAKESLT TPLPGSAVREASN
24283	54651	A	24421	212	497	
24284	54652	A	24422	1	1149	
24285	54653	A	24423	535	589	
24286	54654	A	24424	1	1458	MFDPETLRTFIAVAETGSFSKA AERLCKTTATISYRIKLL VALFFRTTRSVTLTAVGEHLLS QARDWLWSLESMPERAATVW MFVPTPLSVASGLQRIGRAGHQ VGGVSKGLFFPRTRRD VDSAVIVECMFAGRLENLT PPHNPLDVLAQQTVA AAAMDALQVDEWY SRVRRAAPWKDLP RRVFDATL DMLSGRYP SGDFSAFRPKLVW NRETGILT RPAFAADSDIAD GQTQR FDFSI LQSMAHDL SQTA WR/GI QYDAE KSLWHN VE\\NRQ LDAQFF HMG MGFRR V RMSV DPA THL ARE IHFR PELF KYND GVDT KQLEG QSDLG FAG FRVF KA PEL ARR DV SFLG ASY FRA DD TYQY GLS ARG LA IDTY TDSK EE FPD FTA FWF DTV KPG ATT FT VY ALL DSAS ITG AY KFT IHCE KS QV IMD VEN HLY ARK DIK QLG IA P MT SMF MPR KN AS RL SK RCY DI RER D GRE ERK
24287	54655	A	24425	157	650	PIRA STCL FKPL ITQC FRQFG SE GVND HLL GILL IDPAR AQIE YL IIN TPH RRA VAA FHI C IDF QLRF RIH FRQ FAH QQIV VGHL TIR FDG VLR D VDQ TVK YRA FV ADD SF VQL SAV TKT FIV FQPG TG I THL V FHR HRQA Q*PF KVP FSR RLR NGI HTHC
24288	54656	A	24426	269	2024	

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24289	54657	A	24427	1	3548	MPRSNYFSERCKGEIFLKFENM QRTGSFKIRGAFNKLSSLTDAE KRKGVVACSGNHAQGVSLSC AMLGIDGKVMPKGAPKSKVA ATCDYSAEVVLHGDNFNDTIA KVSEIVEMEARIFIPPYDDPKVI AGQGTIGLEIMEDLYDVDNVIV PIGGGGIAGIAVAIKSINPTIRVI GVQSENVHGMAASFHSGEITTH RTTGTADGCDVSRPGNLTYEI VRELVDDIVLSEDEIRNSMIAL IQRNKVVTEGA
24290	54658	B	24428	1	2691	
24291	54659	A	24429	2174	3315	NLPKPDWARSAPHPASANYKS NTRRLPFAREQ/QDQHTLLAGT LFIAKILIPMQIAQSAAYRRRCP DAQLHFLPLQLAPRGHRYKRV CQVRYPPIALIPVVFRMLNDAN GLSQPADAGLAHHEMRNFLDF ASSNVAASRRRCVAALPCATG KGRQANEQAENKCSKDPQTHR TDNKETKTPPARPTTTQPHTK EEEPLSTPTQTKHPPTHVTGTGP HPTPASGQTEKHERKRPTQQKS NARQNSKDRTPNKSITKPN RGYNQHPAGEPTMSTHEKVKP HQQRKIQAPPKRQKTDHRHT HNTHPHPPHRAASTTQAAPPP RRATRSGTSATAHNNTEPHGR HTQPGDHKRAEEHDRTADEPT PPEHTLPSHTQLGP
24292	54660	A	24430	1	2925	
24293	54661	A	24431	341	689	RPLAFRQRCTFYWR\PGSANCRLV*GASGTDPRLYSPCAAAADD CGRRQNAGRRRRATSGD*SPHR RWNALLFDSRHRHCPRRAKN AGGEYRQRGIAGSDLQQRFTA AEKDHSRS

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24294	54662	A	24432	1	1931	MGTLGTLTVLTLVAEELPAET DVAADPAASPTCTAVNQTIGRA IVAADFFIIFQLWQNTVRQLVT HFKPHGQSEMSDTPELINRARY LTYLYCRQPAKAIRELSEQELA WKKQATHEYQVLVTRCKQTL HQVEPLREIEPGRKRLVFDENL RPKQNPIPHELLTCWPPLTVDEH ANRSSIGNNNISFVVNRAVVTN VLNTMRTACNSQATIQIYNADI ARDFGTRGIFSINSGFSTVIRGG VVTVDLSAGAAIGDSALAFVID DGLVAVNLTDGLRIGDGHGA LVIHRCAVAGDINTVTAADM DLEDPRIISARFGVPRTQVRTW VALYEKHGEKGLIPKPKGVSA PECVLGREGCDRAAHVPYQAA AHFMLAGSGSVARWLKVYER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQVR FLETRLMLKKLKALAHPTKK AAEIPRSTFYHLKALSKPDKY ADVKKRISEIYHENRARYGYRR VTLSLHREGKQINHKAVQRLM GPSHLKQRLRSSDTALTEERDF KATRPNEKWVTDVTEFAVngr KLYLSPVIDLFNNEVISYSLSER PVMNMRRSRPGVGYFYALTPV YLANRLQALLGVEQ/HHPDGEL FLTGYVADGGYHS
24295	54663	A	24433	3	158	
24296	54664	A	24434	1	3432	

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24297	54665	A	24435	1298	2649	TFITRPTSNGTSIFKLMNRRRLE GGNVATLR/RLTIGMIFQDHHL LMDRTVYDNVAIPLIIAGASGD DIRRRVSAALDKVGLLDKAKN FPIQLSGGEQQRVGIARAVVNK PAVLLADEPTGNLDDALSEGIL RLFEENRVRGVTVLMAHDINL ISRRSYRMLTLSDGHLHGGFGG RLDRFRKSVGGSGDGGRNAPK RAKSSPKPVNRKTNVFNEQVR YAFHGALQDLKSKPFATFLTV MVIASLTPLSVCYMVKNVNQ AATQYYPPSQITVYLQKTLDD AAAGDPDRPSLQLRWRVIPGFS IAVAIYFLNESLGRPLMITGSA ECSLLAWPVRSGRLKAPMKTFP LQSLTIIEAQQKQFALVDSICRH FPGSEFLTGGDLGLTPATELKPR RLPSGVEQVLAQAFHAQAAAL VQGAGTGAIAGLAALLKPGQ RLLVHDAPVYPTTR
24298	54666	A	24436	546	707	
24299	54667	A	24437	428	1464	RNSRSLAEISRLRGQTRSGLPM LLNLQSMGAS/WYLSPVIDLFN NEVISYSLSERPVMNMDHHLL MDRTVYDNVAIPLIIAGASGDD IRRRVSAALDKVGLLDKAKNFP IQLSGACWHCRAVVNKPAVLL ADEPTGNLDDALSEGILRLFEEF NRVGTVLMAHDINLISRRSY RMLTLSDGHLHGGFGGRDRF RKSVGGSGDGGRNAPKRAKSS PKPVNRKTNVFNEQVRYAFHG ALQDLKSKPFATFLTVMVIAISL TLPTSCYMVYNIKSERISDIST QLNAFPGCEVAVSDAPSGQLIV VVEAEDSETLIQTIESVRNVEGV LAWSLVYHQEQEQGEETP
24300	54668	A	24438	1	429	
24301	54669	A	24439	307	424	
24302	54670	A	24440	300	468	
24303	54671	A	24441	946	1558	KGCVSIPFFSFSWAVMSNLTYL QGYPEQLLSQVRTLINEQRLGD VLA KRYPGTHDYATDKALWQ YTQDLKNQFLRNAPPINKVMY DNKIHV LKNALGLHTAVSRVQ GGKLKAKVEIRVATVFRNAPE PFLRMIVVHELAHLKEKEHNK AFYQLCCHMEPQYHQLFDTR LCNRIRLNGHDHFR RRYALFRV NTGRTASPVIQP

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24304	54672	A	24442	1	774	
24305	54673	A	24443	1	452	MELKKILMEHISIUPDYRQAWKV EHKLSDILLLTICAVISGAEGWE DIEDFGETHPDFLKQYQDFENG IPVHDTIARVVSCICPAKFHESFI NWMLDYHSDDKD/DHRN*W KNTPAFL*QESP*GSDSCH*CVL NNAQSGHRTDQDG*EIQ
24306	54674	A	24444	486	572	
24307	54675	A	24445	1	683	MHSLVIGQIKTDKKSNEITAPE LLNMLDIKGKIIKTDAMGCQKD IAEKIQKQGGAVMNLQRFDDST LIRIFALHEHLRLKEHGLTRGAL LDYHSRYKLVFL\AHPQPESRK LGPFVADIHQWQNLDDYSPQY RQRVVVLLSHPANARDHTNVL MHVQGYFRPHIDSTERQQLRAL IDSYRRGEQPLLAQPLMRIKHYM ALYPDAWLSGQRYFELWPRVI NLRHSGVL
24308	54676	A	24446	896	1066	WRLSPSSR*LMPKVPRIQAYFT T*YCS*VIQRSPC*FHCYSRSIPW AWGAGKQSLT
24309	54677	A	24447	1	3660	
24310	54678	A	24448	1	1530	
24311	54679	A	24449	1	1890	
24312	54680	A	24450	746	1872	KHWRGSLISLSTPARFNGGPFW GANQGGDPKGRGGSQRALFRR KNNRGGETVSGAEDACIVNNN AAAVLLMLAATASGKEVVCSR GELVEIGGAFRIPDVMRQAGCT LHEVGTINRTHANDYRQAVNE NTALLMKVHTSNYSIQGFTKAI DEAELVALGKELDVPPVTDLG SGSLVDSLSQLYGLPKEPMHELI AAGVSLVFSFGDKLLGGPQAGI IVGKKEIMIARLQSHPLKRALRA DKMTLAALEATLRLYLYHPEALS EKLPTLRLTRSAEVIQIQAQRL QDPLAAHYGAEFQVQVMPCLS QIGSGSLPVDRLPSAALTYTPH DGRGSQLESADRWRHELPVPI GRIYDERLWDLRCLEDEQRFL
24313	54681	A	24451	1358	1419	

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24314	54682	A	24452	1	1568	MKGRNIDAQEIQKRYGMVGDP VIIGVVLGLIFGLAAGEGFKGC ASLMITVAAIMVLFPRMIRLIVE GLLPISDGARKFFQKYFKGREV YIGLDTAVTLGHPTTIAVGLLI PIMLILASILPGNKVLPLADLPV APFFICMATVIHRGDLVRTLISG VIVMITVLLIATQFAPYFTEMAL KGGFSFAGESAQISALSVGNMF GWSISELMSLGIIGRVVAVGIVA SVVLFLRVLSMSWLKEVIGTEK AVIAMCHLRALPGDPSFDAQLG MNWVIDKAWDDLMALQNGG VDAVMFSNEFSLPYLTKVRPET TAAMARIIGQLMSDIRIPFGVNV LWDPVASFDLAMATGAKFIREI FTGAYASDFGVWDTNVGETIR HQHRIGAGEVKTLFNIVPEAAV YLGNRDICSIAKSTVFNHNPDA LCVSGLTAGTRTDALLKRVKE TVPDTVVLANTGVCLENVEEQ LSIADGCVTATTFKKDGVFANF VDQARSNNPSAIPAAFVKSIDG DRYQINPNRHGVDG
24315	54683	B	24453	1	3352	
24316	54684	B	24454	60	2284	
24317	54685	B	24455	1	2475	
24318	54686	B	24456	1	2890	
24319	54687	A	24457	1065	1139	
24320	54688	A	24458	282	615	
24321	54689	A	24459	2657	2919	
24322	54690	A	24460	1	835	
24323	54691	A	24461	167	338	
24324	54692	A	24462	834	1515	LRWCSMPCCRWSKDRAAPSPA YSRLSSHVIIAGYVGGGVARG\ HSWVFVALTQLTAVLFLSLAGL LNGVFAKTFDDISLVPFTVLTPL TYLGGVFYSLLPPFWQGLSH LNPIVYIMISGFRYGFPLNHNR PGVAVDINRLLLPRKQEKGK LDKDQLIAGVQDAFADSKLS DQEIEQTLQAFEARVKSSAQAK MEKDAADNEAKGKEYREKFR QIPSVSSCQKQ
24325	54693	A	24463	3	557	
24326	54694	A	24464	255	693	
24327	54695	A	24465	3	242	QKAPVLANQRQPRRPTGALL /SLPLVAESSDG*EPMTNATEPH SRPLP

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24328	54696	A	24466	1	2636	MKNIIRTPETHPLTWRLRDKQ PVWLDEYRSKNGYEGARKALT GLSPDEIVNQVKDAGLKGRGG AGFSTGRKWILMPKDESMNIRY LLCNADEMEPGTYKDRLLMEQ LPHLLVEGMLISAFALKAYRGY IFLRGEYIEAAVNLRRAIAETTE AGLLGKNIMGTGFDFELFVHTG AGRYICGEETPPLLKPQTGVWQ RHSCWKLQELAMNDRDFMRY SRQILLDDIALDGQQKLLDSQV LIIGLGGLGTAAALYLA
24329	54697	A	24467	506	673	
24330	54698	C	24468	1	3411	
24331	54699	A	24469	2455	2694	
24332	54700	A	24470	1	1081	MGGLRDPWLHKLRLSLWGLCR YGHKEQYDHIRIELNLAPGDTT LVPTGLAIHIADPSLAAMMLPR SGLGHKHGIVLGNLVGLIDSY QGQLMISVNRGQDSFTIQPGE RIAQMIFVPVVQAEFLNVEDFD ATDRGEGGFGHSGRVCNMAE KQTAKRNREEILQSLALMLES SDGSQRITTAKLAASVGVSEAA LYRHFPSKTRMFDSLIEFIEDSLI TRINLILKDEKDTTARLRLIVLL LLGFGERNPGLTRILTGHALMF EQDRLQGRINQLFERIEAQLRQ VLREKRMREGEGYTTDETLLA SQILAFCEGMLSFRVSEFKYRP TDDFDARWPLIAA\SCSNMTPD
24333	54701	A	24471	93	475	RCKCADAATRGKSRRDLPDVQ NSARQYG/WI/GCATHARSG*HI VEAVQSG/TPPQPLRPRGTSRKV STDYWRRAASQLPAQYQDLTSI YDVYTVPDRVAKRAFKSPPDD GPVMWRMGHQPHLIPRNVLAQ
24334	54702	A	24472	254	1150	RFLTCRYGPGMAEDMQSLVGG TVTRSG*LSVVVNNNGE/LLAK ELSVQVGIRPEYLDRLLHAFSG GQRQRIAIARALSSQPDVIVLDE PTSALDISVQAQILNLLVTLQEN HGLTYVLISHNVSIRHMSDRV AVMYLGQIVELGDAQQEIAQA LRRTPAPMVYIGNLGRELSLP ANLKLESKLAIMEQYVGKKVID AVIVGPKVDVSAVKERIVIQE LEASDIPYRHDRLQLHNALEKA LQALGGLEVQLYRRDSNLVPG QLLKTSEMKGKTRLYAADSRLIA AKGSPIQPTLDSLK

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24335	54703	A	24473	1874	2927	KEDQVKGGMVCPPKKLLCQGTR*RGGVVGGISQASVTSVIGYSA SCQPTPAIMQLHL/ANAASRRL QPDRNRPNPGWHRPPIHAFTTP GLVSVSFLGYPCSTPTCLPFSES SVGESVNLWPQSNENLRRTLV GEGNLLLTFIGNGKHEIIASIFFA FSEGISAQSHWQPRYISPASVCT LVTEIDIKANKITFSIFDENAGA WLPPFCKAVVPGWVYKPNLGH EIACVDHWLMPNRLIENLCDIM LPIWVLTKFNDCCAGCVPCCVII VDDALHGAPKRMCCCITRGMR LLKLSVHIAATRSTLQQASHGH CAWSAPGWLDTSGMDGDRLW WTLHEVLRDLCTSHGNIVESAR
24336	54704	B	24474	1	672	
24337	54705	B	24475	1	2496	
24338	54706	A	24476	3260	3363	RPDSGGP*RQRRYLRCADHRRRAVRNQQQLTACA
24339	54707	A	24477	112	224	
24340	54708	A	24478	1614	2326	CTYSRKCRPDKRSASGNFALSS LKSSPLTKNRRYWKVSPTHLLL SKRPKISLNAYFGACSLVRPVL AAASDWTLQGAWSPTRAKALP ICESWRIPYADSLSSLAASCDAV FVHSSTASHFDVVSTLLNAGVH ICVDKPLAENLRDAERLVEGM REWREERGQGVVHKPIPGWQS TLEQRGFVGCARHFIECVQNQT VPQTAGEQAVLAQRIVDKICSS FNVVVRVAPLGDPIQSKPVV
24341	54709	A	24479	19	885	
24342	54710	B	24480	1	1704	
24343	54711	A	24481	974	1156	

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24344	54712	A	24482	162	1602	HRRKRARGTPKATTTRKPARTIETLSPLLAILAFAPKLAICTRSPL/DMDMPTFTQCTNAYSHGIRNP TAISSAAYPRTITGY/KLGPTGEERTVYGIYGISESNLAECEKGV KSAVALTPALQPIDGVAVSYIDAAVALGNTINEMDKYYTQENY KDDAFAKGKTLHQTLKNLEAFEPVAESYHAAIQEINDKRQLA ELKNIEEREGKTFHYSLAVMISAKQINNLISQDKFDAEAAMKK VSELETLVAQAKEADKGGMNF SFINSAGQYQLEAKKYVRRIRD KVPYSDWDKEQLQDANSSWM VEDSFPRALREYNEMLMTRIGG GAGDQDMVNDFSYSPQLVGRG WFNDQVATGCTRDSTFNQQQV ALSVNAYYVVNRFGKIDWKPM YAEADKLLAKPNMRFKSDKLV GDLSIGDQQMVEIAKVLSYESK VIIMDEPTDALTDTEAESLFRVI REMKSQAPRYCLYLPPHENNL
24345	54713	B	24483	1	1263	
24346	54714	B	24484	148	894	
24347	54715	B	24485	1	1071	
24348	54716	B	24486	168	1088	
24349	54717	B	24487	1	1236	
24350	54718	B	24488	1	849	
24351	54719	B	24489	1	1548	
24352	54720	B	24490	1	1372	
24353	54721	B	24491	1	2469	
24354	54722	B	24492	1	1917	
24355	54723	B	24493	1	1159	
24356	54724	B	24494	1	2294	
24357	54725	B	24495	217	2476	
24358	54726	A	24496	477	916	SLPECEDRVQYRRSLFADPSYR YGLARHGDPRRAGRLRDV*PL HE*YRHWHDQS/RLLIASVLPQ VWHGACNAMTSSCIARQVS*N TALIIRMRKGDLSAVMSSQTGL INIVRRGLLLSCFRLTAMKISTV SPFRPQMPSIVRSVWC
24359	54727	A	24497	1136	1317	
24360	54728	A	24498	3	317	
24361	54729	A	24499	1	1245	

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24362	54730	A	24500	85	1293	ITVATTQHQAGLTLRRAGIRQP DMAVQRDHLPLFRVAGVIRHIM LMLHSQRRTGLLITAKNRLFF QRSSVPKFHSKLNQAYCLIAAT DCPRLLLICRYPHFLHQLIIL AIGIGSAVFEPHQIIGVSRCCPR HLGVERVLFLLNDFIEQVIIRC HVVCQSAAPAAANIQYAHPWF* LQFFTNTNHFELRLLGRFQIIGIFPV SAGILHEGIKHAEEQVITQIVML FADYPGTFFTL/RD*RDERRQY AACL*NDGGVGSRDLRVRLC* KTYPVGHIPTSHPYN/CSPNPKE PSCRTRLKKSGFFTRISAGAEPL MAIPARLSNSLACGARDAAKE VLLWFRFVLLLKQTLLNWTTK NVTSLWRTLGSPVGVKEVRAW TIPV/VSNRAAGSGQNPY*F*KR
24363	54731	A	24501	2794	3531	SPRDSPTFWTKGGPGGSRGKAL RLVVGTDFHQAADNIPDHMMY KSIRFNHYHHIRTVTRDINMHNV APRGSGLALHRTERGEIILAQQ ALRSPMHPFSVQRFVKMGYPFT QYRRAQPMIVDDVATASRGA KSGMKIIRYSFNPTHSDVTR*IRI YAQGPRRVFAQRGCFEMHNLP GTVYPCVSTPAGAEDGDGFVRH LGERLFQLLLHTADFVLPLPAVI LTGGVLNAQRNFINRRLLPYVE
24364	54732	A	24502	1	1767	
24365	54733	A	24503	1	1275	SNPTAIGGRPRRPYQAEDRSLD FVDTALNRKILKDSIFHALQTIM VGIKDFRLTQVFFDLATRJPRH LYHPVDITTHYGRFCRHRHHF QLLQLCFRFLFCLFRHLRRVDF ALQGFVFVRRVVHFTEFFLNSF HLLVQIVLTLGFLHLLFNAVAN AFLNLQQIDFRFHHCHQIFQTFV NVGHLQNRHRKIGIVIFRSDVL EHPHRNNNTIKLVVQVTIILQON GDIQAFATAFLSHFLFGRNGDA HHAYVIIRCHVVCQSAAPAAANI QYAHWF*LQFFTNTNHFELRLG RFQIIGIFPVSAGILHEGIKHAEE QVITQIVMLFADYPGTFFTLQIE ETSAGNTQRVFEMMGELVLET RLRSPAGFTQWIPHQGCRWSCL PVRGTLALLSPWVVDGTGRR GAGGGTPQGGSSCTGAHGGGG
24366	54734	A	24504	1	2052	

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24367	54735	A	24505	1	1060	MNARQQVAALRVPGVKEKATIVYRRLQEMPAWREEEYEEALHDGFRFLNNPERFDADGTLTLRVMSLGEPEDEKGRRRPVETNETVTLLVDSLITAIQEQQDTEALNAMGVPLDKNGWPDVDHNGETRLTDVFMIGDVQRGPSSIVAAVGTAR RATDAILSRENIRSHQNDKYWN NVNPAEYQRKGDISITLVNSDD RDAFVAQEAAARCLECNVCSK CV\DVCPNRAVSIAVPGFQNR FQLH\LEA\YCNECGNCAQFCP WNGKPYKDKITVFSLAQDFDN SSNPGFLVEDCRWVPHRGLYH RLYREPTWRSEWPRRHICPEGS TFFPERHCDHLSANNSRNKLPL QKPGFIN
24368	54736	A	24506	1316	2678	
24369	54737	A	24507	2172	5242	IYFSERLPALCTPDAHYREPCQYNCTRLDYDSALNIRELKKVAL EKGWDEYKQRWHKPAGSGSR HPVAVIGAGPAGLAAGYFLAR AGHPVTLFEREANAGGVVKNI VPQFRIPAEIQLQHDIDFVAAHGV KFEYGCSPDLTIEQLKNQGFHY VLIATGTDKNSGVVKLAGDNQN VWKSLPFLREYNKGTLALKHV VVVVGAGNTAMDCARAALR VPGVEKATIVYRRSLQEMPAW REEYEEALHDGVEFRFLNNPE
24370	54738	A	24508	192	484	RGLVHRGRYRWQRQKWSAGSP ARHPV/SQSTDTPATHALSTKII SPIPNAPISALARTTATRL*RSM NQPPVKRPTVIPRKPA*ISEPE VGPILGP
24371	54739	A	24509	1	1713	
24372	54740	A	24510	1	651	
24373	54741	A	24511	3	783	PVLSKTPLTAKAIDAAQPQDKPYKLTDSTPGLFLLVHPNGSKY WRFRYWLNKREFLQAIGVYPLITLKEARRRATESRSILANGINPV EQARKEKAIDALNMAAGFKVVAEDWFATRVGGWSESYAKQVRSALEKDVPVPLGKRSIVDITARDVLLALLQKKERTAPEQARNVAGASVRSSSLPLSPNWGGWLA RAAFPHHITIAARMTKHPPCW WCTILACRQASLAVRGSTHYSL ELLIRRHILSLLRSPICASPLTV

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24374	54742	A	24512	746	2387	WTALPARLKQIRSGRKLPPLTVM PALRETDTFDTFMESSWYYAR YTCPQYKEGMLDSEAANYWLP VDIYIGGIEHAIMHLLYFRFFHK LMRDASMTNPSSVPRAGGPAL LFENPKGYSMPVLCNLFGTPKR VAMGMGQEDVSALEVGKLL AFLKEPEPPKGFRDLFDKLQPQF KQVLNMPKRLRGAPCQQKIV SGDDVDLNRIPIIMTCWPEDAAP LITWGLTVTRGPHKERQNLGIY RQQLIGKNKLIIMRWLSHRGGA LDYQEWCAAHPGERFPVSVVAL GAVPATILGAVTPVPDTLSEYA FAGLLRGTKTEVVVKCISNDLEV PASAEIVLEGYIEQGETAPEGPY GDHTGYYNEVDSFPVFTVTHIT QREDAIYHSTYTGRPPDEPAVL GVALNEVFVPILKQKFPEIVDFY LPPEGCSYRLAVVTIKKQYAGH AKRVMMSGVWSFLRQFMYTKF VIVCDDDVNARDWNDVIWAIT TRMDPARDTFLVENTPIDYLD ASPVSGLGSKMGLDATNKWPG ETQREWGRPIKKDPDVVAHIDA
24375	54743	A	24513	576	878	NLGSVWHYFRRSPEPATHHDA ANLERSPAA*RLSGARYRILAV *ADQSQTGSGDGSPDLQTGRV GDEARHRKRGHLHVPQPRSEPPV GARGFPYRFATRWR
24376	54744	A	24514	2	878	
24377	54745	A	24515	1	735	
24378	54746	A	24516	1	1992	
24379	54747	A	24517	721	1239	

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24380	54748	A	24518	1	1954	RQLNGVQLAFRESFHTVTRVTE QHAAGAAVAIHQHRNQLLTGAL GIFAVAVCCLQQQLDILLADHL AEHVQFVIAQFVTCQQHGNGV RNRTIIFLLFNELRKIVETVRVQ QTQTGEVAFHPQLFRGRVYVG PDLNARRNGNVINCSTLEDPQF GLILFVYTIGIQVGPGFFASLRV SGLRLNLFAVLIVIIGGLVTAIL HKLFIDIPLPVVLGIFSGAVTNTP ALGAGQQILRDLGTPMEMVDQ MGMSYAMAYPFGICGILFTMW MLRVIFRVNVETEAQQHESSRT NGGALIKTINIRVENPNLHDLAI KDVPILNGDKIICSRLKREETLK VPSPTDIIQLGDLHLDSRGSP DTQDIDLQINSSVEKQFGDAIRT TILDVLARYNVRGVQLNVDDK GALDCILRARLEALLARASGLP MISASLQQRKTRTRRSMLFVPG ANAAAMVNNFSIYPADALMFDL EDSVALREKDTARRMVYHALQ HPLYRDIETIVRVNALDSEWGV NDLEAVVRRGGADVVRLLTKDT AQDVLDIEK\ELRIEKACGREP GSTGLAAIESPLGITRAVEIAH ASERLIGIALGAEDYVRNLRTE RSPEGTELLSARCPIWQAARSA GIQAFDTVYSDANNEAGFL/QE
24381	54749	A	24519	5121	5492	
24382	54750	A	24520	2520	3525	
24383	54751	A	24521	1	1263	MAINSPLNIAAQPGKTRLRKSL KLWQVVMMSGLAYLTPMTVFD TGFIVSGISDGHVPASYLLALAG VLFTAISYGKLVRQFPEAGSAY TYAQKSINPHVGFMVGVWSSL DCLLAIVVIIAAIYVGFSLAGFH YIGMLFVPGANAAMVSNSFIYP ADALMFDEDSVALREKDTAR RMVYHALQHPLYRDIETIVRVN ALDSEWGVNDLEAVVRRGGAD VVRPKTDQAQDVLDIEKEILRI EKACGREPGSTGLAAIESPLGI TRAVEIAHASERLIGIALGAEDY VRNLRTERSPGTELLFARCSIL QAARSAGIQAFDTVYSDANNE AGFLQEAAHIIKQLGFDGKSLIN PRQIDLLHNLYAPTQKEVDHAR RVVEAAEAAAREG\LGVVSLN GKMDGPIVDRARLVLRAELS
24384	54752	B	24522	62	405	

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24385	54753	A	24523	891	3240	RYRKSPGSWR/CMSCILTSWITT MFPI*RLGQWC*NPCVTMALL APIDVHLMVKPVDRIVPDFAAA GASIITFHPEASEHVDRTLQLIK ENGCKAGLVFNPATPLSYLDY VMDKLDVILLMSVNPGFGGQS FIPQTLDKLREVRRIIDESGFDI RLEVDDGGVKVNNIGEIAAAGA DMFVAGSAIFDQPDYKKVIDE MRSELAKFEDIRGVAFDLDGTL VDSAPGLAAAVDMALYALELP VAGEERVITWIGNGADVLMER ALTWARQERATQRKTMGKPPV DDDIPAAEQVRLRKLFDRYYG EVAEEGTFLFPHVADTLGALQA KGLPLGLVTNKPTPFVAPLLEA LDIAKYFSVVIIGDDVQNKKPH PDPLLLVAERMGIAQQMLFVG DSRNDIQAQAAAGLDAQARRK NAGYYYYLRLAKRQMRAGVA EALRDDLLAAKLNVKLVNAGD YKFKQIASEKLLIVVTSTQGEGE PPEEAVALHKFLFSKKAPKLEN TAFAVFSLGDSSYEFFCQSGKD FDSKLAELGGERLLDRVDADV EYQAAASEWRARVVDAKSRA PVAAPSQSVATGAVNEIHTSPY SKDAPLVAWRLPNVEGRARAG GASSFLADRVEEEGEVRVFIEH NDNFRLPANPETPVIMIGPGTGI APFRAFMQQRRAADEAPGKNWL FFGNPHFTEDFLYQVEWQRYV
24386	54754	A	24524	950	2124	MSLISSVIAATWLHVKSYRLSC GFYACQSLVLVS/IFPTLSCLFA AEQLLIWSASAFITKVLLVPLIM TYAARNIPQNIPEKALFGPAMM ALLAALIVLLCAFVVQPVKLP ATGLKPALAVALGHFLGLLCI VSQRNILRQIFGYCLMENGSHL VLALLAWRAPELVEIGIATDAIF AVIVMVLLARKIWRTHGTLDL TPLFLSLLCFACRKRRLSATRTV TVLHSLGITLLLALWVVQTA ADAGEIFAAGLWLHIDGLGGLF LAIJGVIGFLTGIYSIGYMRHEV AHGELSPVTLCDYYGFFHLFLF TMLLVVTSNNLIVMWAAIEAT TLSSAFLVGIYGQRSSLEAAWK YIICTVRVAFGLFGTVLVYANA ASVMPQAEMAIFWSE

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24387	54755	A	24525	1	757	RWRLPGVPPNGFFSKPLFAP GFALSVEYWILLPAMILLMIESV ASFAWFIRWFGRVVPGKPSEAV ADAAPLPGSMRLVLIVLIVMSLI SSVIAATWLHVKSYRLSCGFYA CQLSLVLSIFATLSCLFAAEQLL IWSASAFITKVLLVPLIMTYAAR NIPQNNIPEKALFGPAMMALLA ALIVLLCAFVVQPVKLPMATGL KPAL/AGLATDAIFAVIVMVLL ARH\IWRTHGTLDVNNLHALK GIMSCSYSS
24388	54756	A	24526	249	3943	
24389	54757	A	24527	1	1278	
24390	54758	B	24528	48	144	
24391	54759	B	24529	27	239	
24392	54760	A	24530	1	551	
24393	54761	A	24531	3	258	MLFDEPTSALYPEMIN*VLDVM VELANEGMTMMVVTHEMGFA RKEANRVIFMDEGKIVEYSPKD AFFDDPKSDRAKDFLAKILH
24394	54762	A	24532	2	979	
24395	54763	A	24533	1	4116	
24396	54764	A	24534	1	1195	MLIAEGLMTAKNITVITNSLPA AFALSENKDTLVVCGGTVRHK TRSMHGRIAERSLQDINADLMF VGADGIDAVNGITTFNEGYSIS GAMVTAANKVIAVLSSKFNR RGFNQVLPPIEKIDIIITDDAVSEV DKLALQKTRDTSLVYVSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKTV NGLEPVQQGEITVDGIVVNDKK TDLAKLRSRVGMVFQHFELFPH LSIENLTLAQVKVLKRDKAPA REKALKLER/VSGFFAHANKF PAQLSGGQQQRVAIARALCMD PIAMLFDEPTSALDPEMINEVLD VMVELANEGMTMMVVTHEM GFARKVANRKHTTRSTIALQSL ATCT
24397	54765	A	24535	383	962	TDNDRPGGLGTDMKKASAIVTN VAVVLSGRYRRERASGEWAAL SFLRPHTLTVFVIPHIQWDDPQ MSRP\SGRHLFRCRTVQRKHAL QVVEKFRPFFPSDRYRYGAPGD YAQSFGGQIDDVVKAIQTPSKF RRFLRVSFD*IRLPILHSGKSPRL RMPNLMRRHSHTARHYPALGT RGPQPTDRQERPAVASGQ

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24398	54766	A	24536	1477	2387	
24399	54767	A	24537	1	1560	
24400	54768	A	24538	305	718	
24401	54769	A	24539	1	2161	MNDVDRVGGKNASLGEMITNL SGMGVSVPNGFATTADAFNQF LDQSGVNQRIYELLDKTDIDDV TQLAKAGAQIRQWIIDTPFQPEL ENAIREAYAQLSADDENASFAV RSSATAEDMPDASFAACTLVPG QNLSTSNDVIELPDNQYDLDK MVNIYPVTPGLIDQLRAKPIMS QANPELEQQIANYEYRIGIDV LMVTVDHPELTTPAGQYRSA SDTGNWVNADGAIFYPYIGRLK VAGKTLTQVRNEITARLDSVIE SPQVDVSVAFRSQKAYVTA EVSKSGQQPITNIPLTIMDAINA AGGLTADADWRNVLTQNGV KTKVNLYALMQRGDLRQNKL HPGDILFIPRNDLKVFMGEV GKQSTLKMDSGMLAEALGN AEGMNQDVADATGIFVIRATQ NKQNGKIANIYQLNAKDASAM ILGTEFQLEPYDIVYVTAPLAR WNRVISLLKKLERLTSIAITLPGI IDTENGIVHRMPFYEDVKEMPL GEALEQHTGPGEAKGLVGAP PGARDVIQVVSIPNVGRAVIPN GHLLPQGSSLVIAHTQGGPL MGKRCYCGNHGCLETIASVDSI LELAQLRLNQSMSSMLHGQPL TVDSLQAAALRGDLLAKDIITG VGAHVGRILAIMVNLFNPQKILI GSPLSKAADILFPVISDSIRQQA LPAYSQHISVESTQFSNQGTMA
24402	54770	C	24540	1	1389	
24403	54771	A	24541	405	576	CEMGAPPWPGCWLSLFDVDG RFVLAWMLFQGSYLAGALGDQ PVHIHLGQLLALWRPL

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24404	54772	A	24542	1	1127	MARTLAHELIDFGEIKRGLLGIK GTEMSADIAKAFNLDVQRGAF VSEVLPGSGSAKAGVKAGDIIT SLNGKPLNSFAELRSRIATTEPG TKVKLGLLRNGKPLEVEVTLDT STSSSASAEMITPALEGATLSDG QLKDGGKGKIKIDEVVKGSPAAQ AGLQKDDVIIGVNDRVNSIAE MRKVLAAKPAIIALQIFPVDR GAIGGQTTDIPPDPMSGINHDRC MKGLSFAGEMVTYNTAHRRA FTNQPRDFMSVAWLKGIAILP SVGEVRSPVAGRIASLFATLHAI GIESDDGVIELIHVGIDTVKLDG QIFSAHVNGEAGLKRVVKKEH AD/VQRHAESV*RRGQAQGTD GIRRQDNRVQPGCERCTHQLLR
24405	54773	A	24543	95	599	QIMRMLNGSSTPNTSLPTPQAF DRSLPINATSARPSSTSTRHSAE SSISRDCVSNVS/HSGG*TGGIK G*CHAHPADLTACHEADSRGSP SHAVAVALHVID/GWYLGDQ TAAYATGSAVSCPSSGNQFSRP SAAGRFSAVSAPQGAQRHPGR ARRRPRRRRTAGGCRR
24406	54774	A	24544	640	890	LANAQLGSNEISIFQCFAAIQRFI KLHRDASVINHPLAE/TRK*YPV SVYHLRHPPAIIR*PAIRDNA**I LPVTPGYSCSRHQ
24407	54775	A	24545	3	257	ETDIFICDSREFFHHFAKASVHI* PVVSIANFAIQSGKILALGAENI ATTSDRRAQRQKAVCKAHDAS SVSFRTLSVRPTNDCP
24408	54776	A	24546	332	1047	RTRPYCPGMGNEPMTGWM AVVTLMIRMCFSVYTM QRMVIVGYGRCFADRN LRSMPNVFTGSCARMR LLYRHRN VKQYRTSCWERWNA A FARMLGLEPKNTAVR AESFVKT AAKNLAEAF GYRSPREYLR CLEI
24409	54777	A	24547	1200	1544	LTGVADGNVDKPCYKFARLW YWIYPAFPPIRRVKVAYREYRP PTTPRVRQVRDLTFCHRPAIPDR MHRY*SSHRALPGCWSKVPAQ KSSRTVSGTD*VDLLSPRAQRA PSPLQG

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24410	54778	A	24548	263	625	
24411	54779	A	24549	742	851	VSAQQRVILNKIAVLNRK*RYG CWRLWICPYISRHLLSNPLQA RCRYSRGER
24412	54780	A	24550	1	532	MKTLIIDANLGTRLYGEDPAG AAARKAKLEIJDNPNDAEAMAIV LGDSIPNDSALNGKNVWLGDIS RAVAHPEFLSERKGHAKPYTA PVAATAPVGASGPKRVVAVTA CPTGVAHTFMALKPLKPKRKN VAGIPDTGQYCETVQTSCW/AA VETPLRQRSSVVSSGVADG*WF MLPG
24413	54781	B	24551	1	888	
24414	54782	A	24552	1	2283	
24415	54783	A	24553	992	1662	KKAIISDGALTGSSSAVITERDC VSRSRWTAVIVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLTDNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAAKNLAEAFEHYNEWPHS ALGYRSPREYLRHGLVSISSLQ KFINDFAFEDGLFSGYDAEKRQ YEKSSWNYQLDENGYAKRDET LTHPRC
24416	54784	A	24554	1	2262	
24417	54785	A	24555	158	410	
24418	54786	B	24556	1	2607	
24419	54787	A	24557	715	1016	KSAAVPRSGASSQSADHFAQP EYAAFSRFPRGSFRHPRAA*YF GRLNHHVRSERGINP*YHRFNL HWRYVADAISADGAFRTVSGG GGRSGAGRVDWQ
24420	54788	A	24558	652	1214	RTDHCVSRWTAVIVRHCTG RSLPAASTVKQYRTSCWDRWN AASATIFR/LSPVEWLTDNGSCY RANETRQFARMLGLEPKNTAV RSPESNGIAESFVKTIKRDYISIM PKPDGLTAAKNLAEAFEHYNE WHPPSALGYRSPREYLGQRACT GHAIGSGPSSAFFGAPVRRVSRT SVTAKACPRGLL
24421	54789	A	24559	647	1976	
24422	54790	A	24560	289	574	ETPASSPTLRTSIPSISWMTRGSL RRVMLLCPFPSESGTVSEKAWP EWSSFSSSPSCRTSASSPPSHLR /NIDVSPKHVVFATIPRNYTMSF LPR
24423	54791	A	24561	816	1375	

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24424	54792	A	24562	1	3993	MSQKLKVVTIGGGSSYTPELLE GFIKRYHELPVSELWLVVDVEGG KPKLDIIFDLCQRMIDNAGVPM KLYKTLDREALKDADFVTTQ LRVQLPARELDERIPLSHGYL GQETNGAGGLFKGLRTIPVIFDI VKDVEELCPNAWVINFTNPAG MVTEAVYRHTGFKRFIGVCNIS IGMKILKTRTLDTTGSTSTGDTL LTQSLLMELSALCRVEVEEGLA LVALIGNDLSKACGVGKEVFG VLEPFNIRMICYGA
24425	54793	A	24563	1136	3608	KKAISDGALTGSSAVITERDC VSRSRWTAIVRHCTGRSLPAA STVKQYRTSCWERWNAASATI FR/LSPVEWLTDNGSCYRANET RQFARMLGLEPKNTAVRSPESN GIAESFVKTIKRDYISIMPKPDG LTAAKNLAEAFEHYNEWPHS ALGYRSPREYLRQRACNGLSD NRCLEIYQIQLGTGELNITTGV VVTARDTHIALNFQKRRRTGLA TQSRQRCQNRRVMGKIVIYRD AIRFTTQLQTATSINKRTQRVSG ICRRYTNMASRCNRHQAIVHIM FAYQRPFHFAHFFAIQQNPFGS IGGQLFRLPVTLTHQLLLAPA AHRHGLFQVDVIFRPDNTALPR NDTHQMVEFLDRFQVVKDIG VIELKVVEDQRTRAVMNKFRA FVEKGAVILRFDKKKDIFLQYR FHTRISTGHGVANNHQIRRLLE LAGIVPLNQLNPLPLNSVPMINI MNGGENADNNVDIQEFMIQPV GAKTVKEARMGSEVFHHLAK VLKAKGMNTAVGDEGGYAPN LGSNAEALAVIAEAVKAAGYE LGKDIITLAMDCAASEFYKDGG YVLAGEGNKAFTSEEFTHFLEE LTKQYPIVSIEDGLDESDWDGF AYQTKVLDKIQLVGDDLFVT NTKILKEGIEKGIANSLIKFKAQ HAGLLHMYTCAMLGVGGQCW RYCMSQAFKEDRFAQDQRVAV
24426	54794	B	24564	83	2851	
24427	54795	B	24565	1	1578	
24428	54796	A	24566	574	753	
24429	54797	A	24567	1	2112	
24430	54798	B	24568	27	969	
24431	54799	A	24569	1	1773	

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24432	54800	A	24570	822	984	PSALCGCHSL*CSNASARFFAA VNPSGAFGCRADHPDGEFLTG YVADGGYHS
24433	54801	A	24571	1	4287	
24434	54802	A	24572	1	2384	
24435	54803	A	24573	3	3682	ACSRPSEAEELLEIDTLNADN TIDGILVQLPLPAGIDNVKVLER IHPDKDVGDFHPYNVGRLCQR APRLRPCTPRGIVTLERYNIDT FGLNAVVIGASNIVGRPMMSMEL LLAGCTTVTHRFTKNLRHHVE NADLLIVAVGKPGFIPGDWIK GAIVIDVGINRLENGKVVGDVV FEDAAKRASYITPVPGVGPMT VATLIENTLQAMSNMATSFLGK HPHVELCDLKLEGWSESGAQ AKIAIAEGQVKVD
24436	54804	A	24574	1	1382	MLRGVNVLADAVKVTLGPKG RNVVLDKSFGAPTTKDGVSVA REIELEDKFENMGAQMVKEVA SKANDAAGDGTATVLAQAI TEGLKAVAAGMNPMDLKAS RSRKGYGPARIQELNQKGISR EATEKAMRECDIDWCA**RF*S DKHHHRT*RQ/PTRHRYPDESV PGSHNHRSAHALSSAQGYILLP RAVLSGWRFENVHPTPGYPAG SGSVFVPPPMTSRRLPAPDNFA APHRYRVLKTGLLSPGCHVRN ADTL
24437	54805	A	24575	466	1215	
24438	54806	A	24576	1104	1923	LAIPMKDFITEAWLRANHTLSE GAEIHLPADSRLTPSARELLESR HLRIKFIDEQGRLFVDDEQQQP QPVHGLTSSDEHPQACCELCRQ PVAKKPDTLTHLSAEKMWAKS DPRLGFRAVLDSTIALAVWLQI ELAEPWQPWLADIRSRLGNIMR ADALGEPLGCQAIVGLSDEDLH RLSHQPLRYLDHDHLVPEASHG RDAALLNLLRTKVRET\ETVAA QIVFITRSF\EVLRPDILQALNRL SSTVYVMMILSVTKQPLTVKQI QQRLGETQ
24439	54807	A	24577	243	644	HAGSVCPSLYRCQRTAKRSGFY LLLKRLWSFSGNI*IHSGQQNPG RNQQLGLPRSRKGESSRAHPSC QRRPQVWPHPLAGSRPPRPWA ACARLGPIAPARQIPERWPGQV PVLADAHVLPCLAGSLRPALYD F

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24440	54808	A	24578	237	454	RSRLPEGVPVCWCNHSVR*RDC RFPVGKLHRLWL/LALPGVRLIF RASTKRITGYINARSASIASASA RNRLV
24441	54809	A	24579	377	1155	KAYSFATMKSLAISCRWQNA*S HVSTFVMVRW/LKGVQFRNHEI IGDIVPLAKRYAEEGADELVFY DITASSDGRVYPTLITRLADRFG VQCIVVGIDTWYDARNLKDISH VGLLGAQVPSVRAGMPQSRRQ TEGAQGMVRNEEGGSLRLSHH QACKATHTQQWTLEVTAQSSY NLFPEQWVFKLFWGIRQGDLPL AFSQKLSRQTFQQQQTQTPRPI VGQAPKDLQQTGTGTPQTHAVH SGDHAAGEQSCKSCKAPIYPLT AQFSLETRSFWGSEWGYSTHG ELRRRDKGRRRFY
24442	54810	A	24580	1107	1458	RTFWWTCNSLAPCAGGYPST GAALPVSRSKLPGRGLLSGWG EHNARYRAGTFLWALFCAAAV AYWRRC\WGQYGMWFLRIRRG TLGDGTIRRVFVGSLWAAVIV EIGVEHIGVFKA
24443	54811	A	24581	171	352	PPAPPAESDGLPAHTTRARTTA DDLRLNKRRQHVGC*YRTRGSP RPNRTWWRVCRYRSPHR
24444	54812	A	24582	5	226	
24445	54813	A	24583	476	1939	RPESQHNTAKPAMKVLEQARR FLGIRWLSAPASLAN/PVILLVV GNILNIVLDVWLVMLHNMNVQ GAALATVIAEYATLLIGLLMVR KILKLRGISGEMLKTAWRGNFR RLLALNRDIMALRSLLLQLCFGAI TVLGARLGSDIIAVNAVLMTLL TFTAYALDGFAYAVEAHSGQA YGARDGSQLLDVWRAACRQSG IVALLFSVYVYLLAGEHIIALLTS LTQIQQQLADRYLIWQVILPVVG VWCYLLDGMFIGATRATEMRN SMAVAAAGFALTLLTPWLGN HALWLALTFLALRGSLAAI WRRHWRNRPGBTGCLNTKGS QQQHRHDSTTQHHLQLLVIRV KTTTTNNSQQTQYPCQQYHT DSRQHRQQNRMVCQRIHALPS PRFRQISRGSTAKVPCAKARAF LRVKSDPTLITRLADRFGVQCIV VGIDTWYDAETGKYHVNQYTG DESRTRVTQWETLDWVQEVK RGAGEIVLAYVSE

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24446	54814	A	24584	1	50	
24447	54815	A	24585	354	456	HLFSEACCSPGVRELCPF*SP GTDRNLVMGH
24448	54816	A	24586	494	835	ITWLPGFRPPFQGSEQFCLAGVP GATGGSESVLHTRNSYKMLEV RREVAALISALKVSAKCRNCGS SHALTEP/ASSPCWRETSTRPTG APAPTI PPPAASPSPGPMCVQPH GED
24449	54817	A	24587	3	726	
24450	54818	A	24588	1	1635	
24451	54819	A	24589	1614	2454	RTTHAPASTPNTGTMLCRPYPC CWRRKTP\IIFRATPQWFVSM QKGLRAQSLKEIKGVQWIPDW GQARIESMVANRPDW CISRQRT WGVPMSLFVHKDTEELHPRTL ELMEEVAKRVEVDGIQAWWD LDAKEILGDEADQYV KVPDTL DVWFDSGSTHSSVVDVRPEFA GHAADMYLEGSQDHRGWFMS SLMISTAMKGKAPYRQVLTHG FTVDGQGRKMSKSIGNTVSPQD VMNKLGADILRLWVASNDYTG EIAGSDENLKRACHYNACSI ARRH
24452	54820	A	24590	362	517	TKSLISSMSSISSPPVVLCRNSS PEV**RKI*LGTELEFVIMVIAVS AWP
24453	54821	A	24591	250	930	
24454	54822	A	24592	1388	1912	VCPAAMTGFAGSPFCTAVVTFP DITPLLWILMC*LAILMAESEPK AISPTTISVVP*YAAESSLRVIP VPSFVTSPLPLILCVAQLRSVE MVSRLPLITEASPRFFCSLTLA LPVSMLNCPTKRLSPSNSTSVL AVALTIPFPLMLRSSPVTFFSV NRPSWAIFPLPNP
24455	54823	B	24593	1	6018	
24456	54824	A	24594	510	1003	VALQADQKHKHERPLPPPPTM FQLAQPGVQLHAKPVYQVP/V MMQATEPTGI*VRIPVLSISTNA PSITSIWPLFVRKISVTLASVV AASHAASSPRQCAIRCKIWGRW AGSLR RDDGFGVRSRGSRGYA SVSISNFSAGINGKSSRSSSPRRS SQTQPVMPI

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24457	54825	A	24595	197	4314	RASTELSLRCCAPSLQ/ALLHFLYLACFTWMILLEGHLHFLTVRN LKVANYTSTGRFKKRFMYPVG YGIPAVIIAVSAIVGPQNYGTFT HCWLKLDKGFIWSFMGPVAVII LINLVFYFQVLWILRSKLSSLNK EVSTIQLDTRVMTFKAISQLFILG CSWGLGFFMVEEVGKTIGSIIA YSFTIINTLQGVLLFVVHCLLN QINSLLLTWTLWILRQRLLSSVN AEVSTLKDTRLLTFKAQLFIL GCSWVLGIF
24458	54826	A	24596	1409	1573	
24459	54827	A	24597	1283	1563	
24460	54828	A	24598	281	839	CVPTTDLVVQSQI*PRWRNWPR CSCSHVSMKAASSPERTFTYCS GIYWLISGSGIGVSVPLLISIGES VINLAVRPVIAHAIRVAITTRQT TRAVAVTVVVALPVFRAVEHHV FQHLTQTRTGFRWHQFFFNRQ REQSFTQGEGQRWANFQNGKV VNHQLAQRLRRIIGRVRFENQ RFVVFDHLA
24461	54829	B	24599	1	5652	
24462	54830	A	24600	559	1665	RVERKATIEMKSQRTTSDSWLII LAKQTGIIRAAGKGKKTFLHD GPPYANGSIHIGHSVNKILKDI VKSKGGLSGYDSPYVPGWDCHG LPIELKVEQEYGPGEKFTAAE FRAKCREYAATQVDGQRKDFI RLGVLGDWSHPYLTMDFKTEA NIIRALGKIIINGNGLHKGAKPV HWCVDCRSALAAEVEYYDK TSPSIDV/AHPFMGFDVPAI HVTLDAGTGA VHTAPGHGPDD YVIGQKYGLETANPVGP DGTYLP LPGTYPTLDGVNVFKANDIV VALLQEKGALLHVEKM QHSYPCC WRHKTP IIIFRATP QWFV SMDQK GCDIGFH ASSNGK RRA DDSTD HN VRR RLCAR QRG QPH PHQ FQRT

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24463	54831	A	24601	1	1190	MTDFRESDTMSLFDKKHLVSP ADALPGRNTPMPVATLHAVNG HSMTNVPDGMEIAIFAMGCFW GVERLFWQLPGVYSTAAGYTG GYTPNPTYREVCSGDTGHAEA VRIVYDPSVISYEQLLRKYRCV AVALLGYFKCKPILLNPSYKSM QDDLAFIARFHFKDLKFRRFSL KADQKSRIYERVLSIAGVNSWK DKQHQPRLVHLLVCAESWVA PRALFDAAIEYLAHQKIAIPAYL VAFLVLGPLVLSLIPSQMLPSLT WSSITYSIVVIVEAGYQYHSRLR RFGRVEVNEQIEYLIHNPIRTRA RAVNFDNNNRLQAPRILRQDS WWITRPLPGLTWAIIGSPGILPQ VVKSARVMKQAVAYLEPFIEA SKEQGKTNGKMWATVKGDVH DIGKNIVGVVLQCNNEIVDLG VMVPAEKILR*KLGGTPRTL*R SNRVPGPEDRHSCLFGCV/YW FLVP*CCLSSLRCCRR*RGQAS RIQ*LLSSKLAISTIL/GLRRFGR VEVNEQIEYLIHNPIR/IARQGG QLC**QQSASGPTDITAGFMVD HQTFGTADVGDNRVARNPATG GQIGARHETGGGLPRTVY*SQQ RAGQNQRQDGDRHREGRRPRH

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24464	54832	A	24602	1	1591	MGILVSPLLAPLIGGLLDTMWNRACYLFLVLCAGVTFSMARWMPETRPVDAPRTRLTSYKTLFGNSGFNCYLLMLIGGLAGIAAFAACSGVLMGAVLGLSSMTVSLFILPIPAFFGAWFAGRPNKRFSTLMWQSVICCLLAGLLMWIPDWFGVMNVWTLLVPAALFFFAGMLFPLATSGAMEPPFLAGTAGALVGGLQNIGSGVLASLSA MLPQTGQGSGLLMTLMGLLIVLCWLPLARGYRLSSWTSTTASEDIDCEEGDGEGNETHGLQLAVEPEGLQPQNYMGRGKIRFRDTCLLFCTQSRGSQWGFarTELVALLPPFLSGAADYRAGLALWLARGADCDVDERHRADRQSNLARSSGGFIALAAGAKSDRRLRELNQS LQKELARNQHHLAERLLETEESVRRDVARELHDDIGQTITAIRTQAGIVQRLAADNASVKQSGQLIEQLSLGVYDAVRRLGRLRPRQLDDLTLEQAIRSLMREMELEGRGIVSHLEW\QSMNQR*AKTSA*RCFVSARKG
24465	54833	A	24603	1	1752	
24466	54834	A	24604	1	699	
24467	54835	A	24605	965	5516	
24468	54836	A	24606	84	3760	
24469	54837	A	24607	27	278	

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24470	54838	A	24608	311	2529	REWGSTRRCERRISLSRNIARWRTIWRITRPCRRCVFRFIASTLRLHLHLIMNDLPLEEYPCVRDLVPGRFLKFL/HRDPKGTTLVLASDLPGRIPVDPRTSIIIVMLFLAVRWLQRQLAGQELLETRATRILNGERGSNVLGTIYEWPPRTSSALDTL LREIQNAREQHHSRLDTLIRSYAAQDVKTGLNNRLFFDNQLATLLEDQEKGVTGTHGIVMMIRLPDFNMLSDTWGHSQVEEQFTLTNL LSTFMMRYPGALLARYHRSDFAALLPHRTLKEAESIAVFRALSRLPDLWHRSGITLTEALPQTDKRQEIQIAVALTSYSGLYGLGYGSKEQLTYSGTAGDLISPGLSAIHGRCILNTLVFIVKLRWMENTLHRFGTHHGCSAVRSSHLDGSPRRSSWHMARARNHIHVLEENMA LLMEQAIANEGLFYRLLYLQRSLTAASSLDDMLMRFHRWARDLGLAELLVVLPEAKAVGSVAMSMLGSDADWGVVLFSDASHYQQGQGTQLLHEIALMLPELLERWIERGWEQQVWRYGFLRYVAFLTGWSAQNELKANPAKGVSAPKAPRHLPKNIDVDDMNRLIDINDPLAVRDLMYGAGLRLSELVGLDIKHLDLESGEVWVMGKGSKERRLPIGRNAVAWIEHWLDLRDLFGSERERRQHAGTNVLQTADQRASRARQEGERLHRAAGR
24471	54839	A	24609	1	1749	
24472	54840	A	24610	1	2911	MNIDAKILNKILANRIQQHIKKLIHHNQVSFIPGMQGWFNIHKSMKVIQHINRTKDKNYMIISIDAEKAFDKIQQPFMLKTLKKLVAGMMAVAAPDDPPPSVSSSKPSTVAPPGRISPSSGRALCTSLSPALSSSSKFSLLRIFQVPAKLGGMVAVAA AAGVNAMLRKVAVAASKPHVEIRQDGDQFYIKTSTTVRTTEINFKVGEFEEETVDGRKCRVRPQSHYSVPVSPLGAHGPLLLEE PVSPFAACGAPS
24473	54841	A	24611	249	609	QIEVCVRIKPKAGTVLAYS*RSRQERPPAPGMTSLSLA VSSDNPVSGDEHIRLARASGRFGIGRVAQPKRIQRRSSTPRAATDLGNPGHRPCTVRKSALLVVSVCRRHSSRSLFRSC

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24474	54842	A	24612	942	1121	
24475	54843	A	24613	1010	1658	EISSSKRSRTVCKRRAPMFSVDS FTCHAASAMRLIPESVNSIFTPS VAISALYCTVIEAFGSVRIRSKS LVVSACSSSTRIGDDLAVPGSGQ TVSQSGTRQKR*TECGQF*PSR VWWKRCNLLPAAAGHAERLH EKHPDRKTRRVRLVWLAGPPT RLLGTMAGATLVLGACCLPWP REGAHNVATAACGGWRARCD LRFRLSCKLGLSRQFFGWNA
24476	54844	A	24614	1	1995	
24477	54845	A	24615	1	2853	
24478	54846	A	24616	1	1755	
24479	54847	A	24617	2942	3454	SVPDWLMCTAFLSLSRINSPRL LKAELLLTSSIPVLLPSLLLPRFQ VPSLFATAVPVSAAPLIIAPSV*L LKTPPADIIRPVTLPLLLNTPAFC TILLMVPVLFNTNELSAPAFMVIC AVISPALLRIPPLTSTLFVITPAF LMTAPLSSFTKLLMMPPLVFSR RPLDTVI
24480	54848	A	24618	1	2959	MKRYRPREILPWKVPPGNYTPK IFKIKGTGHNPMSAIENFDAHTP MMQQYLRLKAQHPEILLFYRM GDFYELFYDDAKRASQLLDISL TKRGASAGEPIPMAGIPYHAVE NYLAKLVNQGESVAICEQIGDP ATSKGCCRSGNRNGGRKIVAVS LKVSGAAKPCGHFRSTRYRV AYSTIINNKAGIWSAFEGVSAT RPNPTPRASPAVRTLSRGTPPEPR KISTDADNLAQGSLKERLPAWL WGKKENSKWEVD
24481	54849	A	24619	441	1425	
24482	54850	A	24620	1	2574	
24483	54851	B	24621	1	1725	
24484	54852	A	24622	160	390	
24485	54853	A	24623	892	1183	
24486	54854	A	24624	1	2493	
24487	54855	A	24625	435	829	ASDVLVSEGCR/YRGASALTST SVICINTDKALRKIIRLPLNGLR KPLNAMTPLPGITWPLCITTEKE DLSISDRLSTCIVKFSHPEPEMS VRKFVPPAILLCSVCLRFSCPTR HQKAPAKWILKSCSAWMR
24488	54856	A	24626	763	1863	
24489	54857	A	24627	1423	1712	

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24490	54858	A	24628	1	2792	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASPVKCIVLQVL RGLQYLHRNFIHSQEQTIPDPSI SDQQQETPLLAGDMAQRGRGG FYVVTAYIYVDKKAPVHMRTA AQGLITLCCQGFGSLLGYRLGG VMMEKMFAYQEPVNGLTFNW SGMWTFGAVMIAIIAVLFMIFF RESDNEITAIVMEDSMSATT LTTPQEQQVDSLIMQIAEENGLE VLDQLSQLPEGASAVGESSVRS QEDQLSRSFICLMAMM
24491	54859	C	24629	213	345	
24492	54860	A	24630	1	474	MHQTTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTIILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDLNNLPTYAPFI TTNLTGPAPTTTHPVGNLGTG NPEPGCGILIVWCCVNWACL WDSVVAAPREPYMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQLNRGAFF CPGVFLVSVLDFEKRL**RR WRRSPAGI*GSRGAATTLSQRQ AQLTQHQTRIPHPPGSLPVVP KFPTGCVVVGAGPVRFVING
24493	54861	A	24631	1	924	
24494	54862	B	24632	177	468	
24495	54863	B	24633	592	883	

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24496	54864	A	24634	1	1926	MATAKANQEIQEWLGKYGTAR VKLNVDKDFSLKDSSLEMLYPI YDTPTNMLFTQGAIHRTDDRTQ SNIGFGWRHFSGNDWMAAVIT FIDHDLSRSHTRGVGAEYWRD YLKLSANGYIRASGWKKSPDIE DYQERPANGWDIRAEGYLPW PQLGASLMLYEQYYGDEVGLFG KDKRQKDPHAIHSAEHSPERSE ALKLVNASVLLPQPVNSACMN HNSTTGAVNSKISRLLNVNW RCLPRLHVSNASWQNGMKSWL SSKPRRHTSEAPEMKYVFIEKH QAEFSIKAMCRVLRVARSGWY TWCQRRTINIAVVRRADGSRT SFVYTSYLAKVNEEWKNNVGT GSTVKWPIGLGGKGNDGIAAF VQLPAGIYVEYAYAKQNNL AYTKLISA*NEVCLY*KTSG*V QHQSNVPR/RSGWPAAAGIRGV SGGQG*TLL*YAAQMAPELPSS TPATWRK*TKSGKTTLV/HGST VKWPIGLGGKGNDGIAAFVQR LPGAIGYVEYAYAKQNNLAYT KLISADGKPVSPTEENFANAAK GADWSKTFAQDLTNQKGEDA WPITSTTFILIHKDQKPEQGTE VLKFFDWAYKTGAKQANDLD YASLPDSVVEQVRAAWKTNIK DSSVNFDMANVFFRVTPGNFL VNREASHQRRVFAVRAGVDFI YRASSDGLRRCRDRRTFRKRIN
24497	54865	A	24635	1387	1639	ESKPLNLGRGSGFLLTRALSAQ PLWQSPDQHLTPQAGLRSRL*A QRQA*QKTASRVV*PKPLWAL VKATSEDISVVL*ESACQC
24498	54866	A	24636	1570	2516	IEVAMSIVVKNNIHVGQRDW EV RDFHGTEYKTLRGSSYNSYF IREEKNVLIDTVDHKFSREFVQ NLRNEIDLADIDYIVINHAEEDH AGALTELMAQIPDTPIYCTANAI DSINGHHHPEWNFNVVKTGD TLDINGKQLIFVETPMLHWPD SMMTYLTGDAVLFNYDAFGQH YCDEHLFNDEVDQTELFEQCQ RYYANILTPFSRLVTPKITEILGF NLPVDMIATSHGVVWRDNPTQ IVEYLKWAADYQEDRITIFYD TMVNNTPMMAADAIAQGIA\ETG PRLAGENFNV\ARNDKHEDPDL LSFRSERGA

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24499	54867	A	24637	24	363	
24500	54868	A	24638	2	366	RATPRHIIIVRFTKVEMKEKMLRAAREKGRVTLKGKPIRLTADLSAETLQARREW*QNLSAFACL*RILFLLHL*SLVWLDMDKCVVENSFL*EC*ILAPTLFWLVGFLPRDPLLV*WASL*G*PDLSLWLPLAFFPSFQLW*I*QLCVLELL
24501	54869	A	24639	232	292	
24502	54870	A	24640	4	911	
24503	54871	A	24641	2795	3226	SWWISFLMCCWIWFASILLRIFASMIKDIGLKFPLVVSLPGFGIRMMLAS*NELGRIPSFSIGWNSFRRNGTSSSLYLW*NSAVNPSGPGLFLVGKLLVIASISEPVGIFTDSTSSWFSLGRVYVSRNLSISSRFSSLFA
24504	54872	A	24642	1	3285	
24505	54873	A	24643	1	4368	
24506	54874	A	24644	200	335	YALLNKDSSPWYPFSVPVLASNTRYLWPLSST**GSLSVWLSPDV
24507	54875	A	24645	174	263	
24508	54876	A	24646	1244	1354	

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24509	54877	A	24647	194	2481	GMFRMNLMEPLTQCINAGHEM TKAIAIAQFNDDSSPEARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQRVGY TIEQINHMRDVFGTRLRRAEDV FPPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNDPQ GTASMYHGWPDLHIHAEDTL LPFYLGKDDVTYAIKPTCWPG LDIIPSCALHRIETELMGKFDE GKLPTDPHMLRLAIETVAHDY DVIVIDSAPNLGIGTINVVCAA DVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRILL TKYSNSNSGSQSPWMEEQIRDA WGSMV\IKNVVRETNEVGKAA PMVDSLIARVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTPAFGRRVSGVIEI ADGSRRRKAALTESDYRVLV GELDDEQMAALSRGLNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSHPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGVIFEAEEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDSPQSFSFGAGDHA NSPQSSSPSTGVHINSPQLSSLS AGVHTISPQSSNPSVGVTALSHP DLVVVFTLTAHSRPVLVVVFT
24510	54878	A	24648	1361	1694	
24511	54879	A	24649	1	3852	MKLMETLNHCINAGHEMTKAV AIAQFNDDSSPEARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHRAQ DLALKGLRVLLVEGNAAPQGTA SVYHGWPDLHIHAEAALLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALPRIEPELMGK/FDEGRS FMPGPP/HHHPLGRSSQ*QVSNS LDRAAKGN*KPLCHC

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24512	54880	A	24650	1	1720	MEKLLLENDLSKDVSRLETFV VPPEKHEKEIIALKSNIVELKKQ LSELKKKCGEDQEKIHALTSEN TNLKKMMSNQYVPVKTHEEV KMTLNDTLAKTNRELLDVKKK FEDINQEfvKIKDKNEILKRNLE NTQNQIKAЕYISLAЕHEAKMSS LSQSMRKVQDSDNAEILANYRK GQEEIVTLHAEIKAQKELDTIQ ECIKIMKRAPV ррKHTLNTQPVE DTSLSTPAAPMVDSLIARVGVM ARGNAITLPVCGRDVKFTLEVL RGDSVEKTSRVWSGNEDQEL LTEDALDDLIPSFLLTGQQTPAF GRRVSGVIEADGSRRKAAAL TESDYRVLVGELDDEQMAALS RLGNDYRPTSAYERGQRYATR PQNEFAGNISAMADAENISRKII TRCINTAKLPKS VVALFSHPGE LSARSVIDSAPNLGIGTINVCA ADV LIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEPEVRL TKYTNINASQSPWMREKFGMA WESMVLKNVVRETDEVKGQI RMRADFV\QAI DQRSSTGAWRN ALSIWEPVCNEIFDRLIKPRSEIT
24513	54881	A	24651	1094	2271	APFHRPHTKQSLQEQTDVVSIN EFLKQMAF*AQKLKE/WRTSAA SDITPAGFCSCRAIKDAEKPGRL PHPD\MEFRDRVDQ\RVVSPFGQ I\HMRNVFGPRLPRAKDVFPVV IGVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNNDP\QGT ASMVSREGDPALH\YQEAPFLP FYLGEKDDVTYAIKPTCCPGLN IIPSCALPRIETLMGKFDEGK LPTDPHMLRLAIETVAAHADY DVIVIDSAPNLGIGTINVCAAD V\IIVLTPVEMFDYTSARQFFD MLRDLLKNADLKGFPEPEVRL LTKYSNSNGSQFP\WMEEQIRD AWGSMVLKNVVRETGEVGKG QIRMRTVFEQAI DQRSSTDTS STPAAPMVDSLIARVGVMASR
24514	54882	A	24652	1	1415	

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24515	54883	A	24653	3008	8165	ILIPFFIGLQNRFTQFRLSETKEIT NPYAMRLYESLFQSSKTNGSGI VSLKIDWIERYQLPQSYQRMP DFRRRFLQVCVNEINSRTPMRL SYIEKKKGRQTTHIAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGTRLRAEDVFP PVIGVAAHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TA\SMYHEVVQNLHIHAEDTLL PFYLGKKDDVTYAIKPTCWPGL DIIPSCLALHRI
24516	54884	A	24654	1	848	
24517	54885	A	24655	2354	3640	NVICNQELVYSSRHQFAPGATV LYKGDKMVLNLDRSRVPTEYR YGVFLNVLLPATKYFQLHDPSL RNMEYNLSASEDI.VLKGLRV LLVEGNDPQGTASMYHGWP DLHIIHAEDTLLPFYLGEKDDVT YAIKPTCWPGLDIIPSCLALHRI ETHLMGKFDEGKLPTDPHML RLAIETVAHDYDVIVIDSAPNL GIGTINVVCAADVLIVPTPVE\ FDYASARQFFHMLRPLLKNVD LKGFEVDVRILLTKYSNSNSQ SPWMEEQIRDAGSMVLKNV KEFAGNISALADAENISRKIITR CINTAKLPKSVVVFLLTPVNYL PGDALQKAFTDKEELLQQAS NLHEQKKAGVFEAEEVITLLTS VLKTSSASRTSLSSRHQFAPGA TVLYKGDKMVLNLDRSRVPTE CIEKIEAILKELEKPAP
24518	54886	A	24656	667	870	QIVSSEPKYTDFLSKIPFEQRVR DVQRNGDHTEGA VR*LSIAFFS ALLKLLAFFTEEVRAAAVVRFV
24519	54887	B	24657	1	1086	
24520	54888	A	24658	2	250	WRTKSLDIPPLIYPNGIVKNILR HLSQLLNVPITRPFSWILRPF*RP *RKISTSFIRPLFTFLPA**MLIRS SVWQ*KTVSW

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24521	54889	A	24659	1	1608	MAETAVINHKKRKNNSPRIVQSN DLTEAAAYSLSRDQKRMLYLFV DQIRKSDGTLLYMTYRKPDGS GIVSLKIDWIIERYQLPQSYQRM PDFFRRFLQCIAGHEMTKAIAI AQFNDDSSPEARKITRRWRIGEA ADLLGVSSQAIRDAEKAGPLPH PDMENGRVVEQRGGYTIEPNN HMRDGVGTRWRRRAEDF\PPLI GVAGHKGGRVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGTA SMYHGWPVDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCLALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLPD LVKNRDLKGVEPDMRKQRHR KAKDLLAQDPTAMTTDELLKE ATRCPICTAYLEKPMSCCECV FCLSCNTNSLQKEPQGEGVLCPF CLEASQKNNIRLNRQLGRLVSH IKELEPKLKKILKMNFKDAEVP RFSSPKPCSSFFSTCYLSKNCSN HPCYSPYPGSGWG
24522	54890	A	24660	1	1128	
24523	54891	A	24661	1035	1208	SLIDRIEALGIFRFAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLPEVQS
24524	54892	A	24662	1	1316	MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPPIGVAA HKGGVYKTSVSVHLAQDLALK GLRVLLVEGNDPQGTA SMYHG WVPDLHIHAEDTLLPFYLGKD DVTYAIKPTCWPGLDI IPSCLALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVCAADVLI VPTPAELFDYTSALQFFDMLPD LVKNRDLKGVEPDMRKQRHR KAKDLLAQDPTAMTTDELLKE ATRCPICTAYLEKPMSCCECV FCLSCNTNSLQKEPQGEGVLCPF CLEASQKNNIRLNRQLGRLVSH IKELEPKLKKILKMNFKDAEVP RFSSPKPCSSFFSTCYLSKNCSN HPCYSPYPGSGWG

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24525	54893	A	24663	504	1254	SYVKYFPHQPAQKYFQQIHSAI GLHNADHVHKHLLGDNRYPIW IMQPSAHHPARQPEHDIAFGKC SSSVSVHLAQDLALKGLRVLLV EGNDPQGTASMYHGWPDLHI HAEDTLLPFY\DPHLMRLAIET VAHDYDVIVIDSAPNLGIGTINV VCAADVLIIVPTPAELFDYTSAL QFDMLRDLKKNVDLKGEPD VRILVVRSQRMVVAGCIIAFID KLLNVLICFPFSVKNRFVIFHSV DFECVIRF
24526	54894	A	24664	1	3216	MKLMETLNQCIAGHEMTKAI AIAQFNDDSSPEARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRLLGQTS VDRLQLSQGQAVKGQNLLPV SLVKRKITTAPNTQTASPRALA DSLMQLARQVSRL/VKRAPTC WPGLDIIPSC\ALPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVIVIDSAPNLG
24527	54895	A	24665	1	419	MSSSDKDFDFS VANMVNFFAP VFPMGKYYTQADKVLIPLAIQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSFAGKEVVFYRPE/ VGCCR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP VYAVSA
24528	54896	A	24666	1	2598	

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24529	54897	A	24667	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILDQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTE NYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGHIELNNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWLFTDSRGSKMTIDGINSN DIYMLGYVNSNLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVF DANA GTESGHQQGESSLFNRACGGGGT FFF SKESQKLQQSAKKRDCINA GHEMTKAIAIAQFNDD SPEARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGTRLKR AEDVFPPIVGVAAHKGGVYKT SVSVHLAQDLALKGSLLL PKND FLFKLGLEGHPLGKIHSPP TGA DVARGSSGLPKSELFPLPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKG NQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESQGNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQS IQRAL QCTYQPI SHSLLYRVTEPVYAV
24530	54898	A	24668	1	989	PWISAPVPDVVEGAMDSVT LSFGGLMLYFCAGWP PARRWC FPESISCGSMERDQWWGLQVA KRALAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWC DRNRERHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEI HVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPE/V GCRR*KRL*IFSLVYQTCAQS IQ RALQCTYQPI SHSLLYRVTEPV

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24531	54899	A	24669	350	1203	LLTARLTWVSARLMSDFADFG TTIKQDFRLLGQTSVDRLLQLS QGQAVKGNQLLPVSLVKRKTT LAPNTQTASPRALADSLMQLA RQD/LALKGLRVLLVEGNDPQG TASMYHGWPDLHIHAEDTLL PFYLGKDDVTYAIKPTCWPGL DIIPSCLALHRIETELMGKFDEG KLPTDPHMLRLAIETVAHDYD VIVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEVDVRILLTKY SNSNGSQSPWMEEQIRDAEGSR
24532	54900	A	24670	1	936	
24533	54901	A	24671	1070	1324	LGTPGGCSRMTCALVPLIPNDD TPTRRTRPLLGQGVFSVRS*TVP ADQSTSGDGDSTCNVRGSCPCR IAITILITPATPAAACV
24534	54902	A	24672	1	1212	
24535	54903	A	24673	2373	3381	FKRGQYGQLRPRFHHQILYA RRQGADAAGDSGIW/HGIWTEP MTM*KKDER*PSPTQAS*DNW KSIRGSCWQALSITRN/CKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHGDICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQNQNRFTQFRL SETKEITNPYAMRLYESLCQYR KPDGSGIVSLKIDWIERYQLPQ SYQRMPDFRRRFLQHIFVLER PETVLIDLIQRTKDAVRELDNL QYRKMKKLLFQEAHNGPAVEA QEEEEEEDD
24536	54904	A	24674	31	811	RRGLLGTRRLSLEDVFPVLGV AAHKGGVDKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWPPELHIHAEDTLLPFYLG KDDVTYAIKPTCWPGLDIIPSCL ALHRIETELMGKFDEGKLPTDP HMLRLAIETVAHDYDVIVIDS APNLGIGTINVVCAADVLIIVPTP AELFDYTSALQFFDMLRDLLKN VDLKGFEVDVRILLTKYSNSNG SQSPWMEEQIRDAWGSMVLK NVVAFQNLEFLFILLRIWL
24537	54905	A	24675	1004	1105	

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24538	54906	A	24676	1	1139	MEKKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDIKK KLKTVKKNKHKFYPAFIHILAR LMNAHPEFRMAMKDVAEYNG YHVVFALAGSPKDADDSIYM FYQKVGDNSIDSWKAGRVFK DSDKFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHYG KQLTTAQVNVSKSDDTLKING VEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTASSIRKSDG TLQEHDGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPE/VGCR*KRL*IFSLVYQT CAQSIQRALQCTYQPISHSLLYR VTEPVYAVSA
24539	54907	A	24677	1	930	
24540	54908	A	24678	1	2486	MNNNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMQLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DKWPLANADGTVAEYNGYNV VDKFDANDPILKDQTQEWSGS ATFTCDGKIRLFYTDYSGKHYG KQLTTAQVNVLKSDDTLKING VEDHKAIFDGDGKTYQNVQQL IDEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGTNFRKESQK LQSAKKRDAELANGALGIIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLFDSRG SKMTIDGINSNDIYMLGYVSNS LTGPKPLNKTGLVLQMGDP NDVTFTYSHFAVPQAKGNVV ITSYMTNRGFFEDKKATFAPSF LMNIKGKNTSVVKNSILEQGQL TWLQVAKRAGLGGGQSGRTVL RERLPNYKNFKGTIQLGQNQY AVSGEIFVVDRNTVEITELPVRT WTQVYKEQVLEPMNLNGDKTP ALISDYKEYHTTTVKFVVKM TEEKLAQAEAAGLHKVFKLQT TLTCNSMVLFDHMGCLKKYET VQDILKEFFDLRLSYYGLRKEW LVGMLGAESTKLNNQARFILEK IQGKITIONRSKKDLIQMLVQRG YESDPVKAWKEAQEKCDNLKT CHTSHGSMMAETAVINHKKRK

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24541	54909	A	24679	5	253	SAPKVWRGLRQQGAGISVLP*V CAQP/VQVAKAPELILNFDLPK KYFDKL/R/DTHFFSPHTGKFPT VKILMAPFANSASRGVALC
24542	54910	A	24680	334	842	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRKFIAFFIAGILFRAI KNHFLPRTLQCLPYILTGFRRG QSEYFSIFSNMDLADTVMFLVG GHKIFVFHCTELRMSIHQAGK NVNKGRKLVLIFLYGL*/QRP* YPAERSGYRYIEQLTEMPQNVL YDAIGIYQRWYIQ
24543	54911	A	24681	676	1169	DNLKTCHTSHG SVM AETAVIN HKKRKNSPRIVQSNDLTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQEHDGICEIHVAKYAEIFGLTS AEASKDIRQALKSFAGKEVVFY RPE/VGCRR*KRL*IFSLVYQTC AQSIQRALQCTYQPISHSLLYRV TEPVYAVSA
24544	54912	A	24682	1	783	
24545	54913	A	24683	1	1884	
24546	54914	A	24684	1	1131	
24547	54915	A	24685	1	2856	
24548	54916	A	24686	528	725	
24549	54917	A	24687	1	898	
24550	54918	A	24688	1879	2343	
24551	54919	A	24689	1	1254	
24552	54920	A	24690	1	1113	
24553	54921	B	24691	1	1156	
24554	54922	B	24692	1	1980	
24555	54923	B	24693	1	1932	
24556	54924	A	24694	1	663	
24557	54925	A	24695	1123	1764	
24558	54926	A	24696	2	1772	
24559	54927	A	24697	1	1040	MELKT KARELREECRSLRSRCN QLEER VSAMEDEMNE MKREG KFREKRIKRNEQSLQE IWDYVK RPNLRLIGVPESDVENGTKLEN TLQDI IQENFPNLARQANVQIQE IQ RTPQRYSSG RETPRHII VRFT K VEMKEKMLRAAERKCDNLK TCHTSHG SVM AETAVINHKKR KNSPRIVQSNDLTEAAYSLRD QKRMLYLFVDQIRKSDGT LQE HDGICEIHVAKYAEIFGLT SAE SKDIRQALKSFAGKEVVFYRPE EDAGDEKS YEQPSKDIRQALKS FAGKEVVFYRPE/VGCRR*KRL *IFSLVYQTCAQSIQRALQCTYQ PISHSLLYRVTEPVYAVSA

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24560	54928	A	24698	1683	4289	RVFKDSDFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDEQNYTSGDNHTRLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNNDYTLKKV р MKPLITSN TVTDEIERANVFKMNGKWHSK ILVSGTHRARTEVEVTDPHQQ RMGCCFTVGAGEICEKPTGCFF TPLPNCNCQWTGSAILDRRSHS HPHSPASGSWVKVVTGSYQLT HSPGIGL RDFADF GTPH QTGFSP AGANQRGPLVATLSGP GEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AVSATQLMHFKILVSRAHRART ELEVTDPGSSAENGLLFPVVLL LRKARKTLMPPHSTCFIKRSAP TQSTAGKTRPRVVLKDSDKFDA NDPILKDQTQEWSGSAPFTSDG KIRLFYTDYSGKHYGKQSLTTA QVNVSKSDDTLKINGVEDHKTI FDGDGKTYQNVQQFIDEQNYT SGDNHTRLRDPHYVEDKGHKYL VFEANTGTENGYQGEESLFNKS VLRRRHELLPDFADFGPTIKQD FRLLGQTSDRLLQLSQGQAV KGNQLLPVSLVKRKTLAPNTQ TASPRALADSLMQLARQVSRL
24561	54929	B	24699	1	2034	
24562	54930	A	24700	1	1038	
24563	54931	A	24701	1	1149	
24564	54932	A	24702	2	823	WPLQNADGTVAEYNGYHVVF ALAGSPKDADDSIYMFYQKV GDN SIDS WKNAGRVFKDSDKF DANDPILKDQTQEWSGSATFTS DGKIRLFYTDYSGKHYGKQSLT TAQCDNLKTC TSHGSVMAET AVINHKKRKNSPRIVQSNDLTE AAYSLSRDQKRMLYLFVDQIR KSDGTLQEHDGICEIHVAKYAE IFGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEK/ML*IFSL VYQTCAQSIQRALQCTYQPISH SLLYRVTEPGYAVSA
24565	54933	B	24703	1	1206	
24566	54934	A	24704	2	1037	
24567	54935	B	24705	1	1389	

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24568	54936	A	24706	1	602	MGTGDFICISMTGGAPWGFRILQ GGKEQKQPLQVAKWANLKPGP PSHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
24569	54937	A	24707	1	774	
24570	54938	A	24708	1479	1947	
24571	54939	A	24709	1	696	
24572	54940	A	24710	1	1773	
24573	54941	A	24711	1	1509	
24574	54942	A	24712	1	891	
24575	54943	A	24713	156	242	VAGRIGIGYRLSPNKGL*TWSAL CKPIAE
24576	54944	A	24714	1441	1866	
24577	54945	A	24715	1	1098	
24578	54946	A	24716	1	1989	
24579	54947	B	24717	126	848	
24580	54948	B	24718	58	688	
24581	54949	A	24719	1	542	
24582	54950	A	24720	1	675	
24583	54951	A	24721	1	1209	MKMPEKHDLLAAILAAKEQGI GAILAFAMAYLGRGRYNGVLEA RSLKSRCQQSHALAEGRGGPP VTGRFKSTFTADSWNRYSLPSL TGGGNILHSRTHRRTVSRLLGR RWQELLRDVFGTRLRAEDVF PPVIGVAAHKGGVYKTSVSVH LAQDLALKGLRVLLVEGNDPQ GTASMYHGWPDLHIAEDTL LPFYLGKDDVTYAIKPTCWPA LDIIPSCLALHRIETELMGKFDE GKLPTDPHMLRLAIETVAHDY DVIVIDSAPNLGIGTINVVAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEPEPDRILLT/ KYSNSNGSQSPWMEEQIRDAW GSMGLKNV/VRETDEIG\KGQIR MRTVFETAMDKRLLTGAWEK AFFFLEPGFEEKSNR

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24584	54952	A	24722	1	743	MIGMELPGLEGTELEGCHEREV VYDRVRVFEKRGEARHVEARS PGGGSEKRGWGGARHQRMCR KGADNGGAGRARRVARLRLQ ASRAIGRRKGAVLYQTPVINHK KRKNNSPRIVQSNDLTEAAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTL WREASKDIRQALKSFAGKEVV FYRPE/VGCRR*KRL*IFSLVYQ TCAQSIQRALQCTYQPISHSLLY RVTEPVYAVSA
24585	54953	A	24723	1157	1471	
24586	54954	A	24724	1	824	MEENERDLEINMINMSKELKVE NIKKHIGMLEKDEIEIIVTKSILI EIEIPTQCLRNLNLTLLAASAGN HMSNTACWYGCEDFTSVSTFA HQGVGSWDAYEPAASLLSCD NLKTCHTSHGSVMAETAVINH KKRKNSPRIVQSNDLTEAAYSL SRDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVANYAEIYGLTS AEASKDIRQALKSFAGKEVV RPE/VGCRR*KRL*IFSLVYQTC AQSIIQRALQCTYQPISHSLLY RVTEPVYAVSA
24587	54955	A	24725	996	1169	SLIDRIEALGIFRFAAV*GSAAY HGV*YERRRTFLCMLFGYFLSR RLESLLLPEVQS

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24588	54956	A	24726	3	1743	DSPE\ARKITRRWRIGEAADLV GVSSQAIRDAEKAGRIPHDM IRGRVEQRVGYTIEQINHMRDV FGTRLRRAEDVPPVIGVAHK GNDPQGTASMYHGWPDLHIH AEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSCLALHRIETLM GKFDEAQPNLIGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEPEPDRILLT KYSNSNGSQSPWMEEQIRD GSMVLKNVVRETDEVKGQIR MRTVFEQAI DQRSSTDLSLSTP AAPMVDSLIARVGVMARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGN ERDQELLTEDAL DDLIPSFL LTGQQTPAFGRRVSG VIEIADGSRRKAA ALTESDYR VLVGELDDEQMAAL SRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVALF SHPGELSARSGDA LQKAFTDKEELL KQQASNLHE QKAGVIFEAEEV ITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVNL NDRSRVPTECIEKI EAILKELEKPAP
24589	54957	A	24727	1	1623	
24590	54958	A	24728	1	1863	
24591	54959	A	24729	1	2622	
24592	54960	A	24730	1	1338	

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24593	54961	A	24731	1	1823	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMQLQIPKQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNSIDSWKNAAGRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGKHYGKQS LTTAQNVNSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDE NYTSGDNHTLRDPHYVEDKGH KYLVFEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNN YTLKKVMKPLITSNTVFIRD MERRNRRTGRTEKARIWEV RTVRTWIGEAVAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEVYTK VFALDVAARHRC DNLKTC HTS HGSVMAETAVINHKKRKN SPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEH DGICEI HVAKYAEIFGLT SAEASKDIRQ ALKS FAGKEVV FYRPE/VG CRR *KRL*IFSLV YQTCAQS IQRALQ CTYQ PISHS LLYRV TEPV YAVS
24594	54962	A	24732	1476	2221	

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24595	54963	A	24733	1	815	MRVGRKAVGAIWWSSKQELFQQLFLRTELEDIGPGIVKRELGREGSKDTGSSDDWEQLPDWKTKRVGNERDQELLIEDALDDLIPSFLTGQQTPAFGRRVSGVIEADGSRRRKAALTESDYRVLVGELDDEQMAALSLRGNDYRPTSAVERGQRYASRLQNEFAGNISALADAENISRKIITRCINTAKLPKSVVALFSHPGELSARSGDALQKAFTDKEELLKQQASNLHEQKKAGVIFEAEEVITLLTSVLKTVQSKNLSHFTWICHAETAVINHKKRKNSPRIVQSNDLTEAAYSLSRDQKRMLYLFVDQIRKSDGTLQEHDGICEIHVAKYAEIFGLTSAEASKDIRQALKSFAGKEVVFYRPEEDAGDEKGYESFPWFHWTISPQTSAVERGQRYASRCKNEFAGNISALADAENISRKIITRCINTAKLPKSVALFSHPGELSARSGDALQKAFTDKEELLKQQASNLHEQKKAGVIFEAEEVITLLTSVLKTSASRTSLSSRHQFAPGATVLYKGDKMVLNLDRSRVPTECKRKLRRP*SGQRTDTAYVFDPGRDY

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24596	54964	A	24734	2	1249	DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLSLESGQLAISGRI LFLPMLNSINKLAAPSQPCTEPF FRDPTLHPKSEVRLPPKVTTIT VISNPILITPQEKSVAQCTYNQT VQLDITAFLKTVKKNHKFYPA FIHILARLMNAHPEFRMAMKD GELVIWDSVHPCYTVFHEQTET FSSLWSEYHDDFRQFLHIYSQD VACYGENLAYFPKGFIENMFFV SANPWVSVTSFSDLNVANMDNF FAPVFTMGKYYTQGDVKLMPL AIQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLPIDWIERYQLPQSYQRM PDFRRRFLQVCVNEINSRTPMR LSYIEKKGRQTTHIIRISDGT QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDERGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY ESLCQYHLCGTLRNSRFCEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPE/VGCR* RL*IFSLVYQTCAQSIIQRALQCT

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24597	54965	A	24735	1	2286	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNNFAVGYRTGD FQLHTNVNDGAEFGGSVYQKV CEELDALINLAWTSSTSCTRG LAAKFQLKPIAFISTKVNHWLT GVSYTPPLEAGVKLNLSALCDN LKTCHTSHGGSVMAETAVINHK KRKNSPRIVQSNDLTEAAYSL RDQKRMLYLFDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFRAH SPSRGLYSHINPYLIPFFIGLQN RFTQFRLSETKEITNPYAMRLY EIPVVSIRKPGMGSGIVSLKIDW IERYQLPQSYQRMPDFRRRFLQ CINAGHEMTKAIAIAQFNDDSP EARKITRRWRIGEAADLLGVSS QAIRDAEKAGPLPHPDMENRG RVEQRGGYTIEPNNHMRDGVG TRWRRAEDVF\PPPLIGVAGHKG GR\YKTSVSVHLAQDLALKGLR VLLVEGNDPQGTASMYHGWW PDLHIHAEDTLLPFYLGKDDV TYAIKPTCWPGLDIIPSCALHR IETELMGKFDEGKLPTDPHML RLAIETVAHDYDVIVIDSAPNL GIGTINVVCAADVVLIVPTPAELF DYSALQFFDMLPDLVKNRDL KGVEPDVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAAADGVTFSVPVTPHTF

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24598	54966	A	24736	1	1400	MDAKMHSGGTAPPGLTLSQRQP SSNSKTNGSKLNPLKDTLLSTPS CPEGELVNAARRSNGSGNAITL PVWGRDVKFTLEVLRGDSVEK TSRVWSGNERDQELLTEDALD DLIPSFLLTGQQTPAFGRRVSGV IEIADGSRRRKAALATESDYRV LVGELDDEQMAALSRLGNDYR PTSAAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVALFSHPGELSARSGDA LQKAFTDKEELLKQQASNHL QKAGCDNLKTCHTSHGSVMA ETAVINHKKRKNSPRIVQSNDL TEAAYSLSRDQKRMLYLFVDQI RKSDGTLQEHDGICEIHVAKYA EIFGLTSAEASKDIRQALKSFAG KEVVVFYRPEEDAGDEKSYEQPS KDIRQALKSFAGKEVVVFYRPE/ VGCCR*KRL*IFSLVYQTCAQSI QRALQCTYQPISHSLLYRVTEP
24599	54967	A	24737	1	1628	MLHITNDQGNASQNHNAMPPY SCKNGHNLKTVDGGMDAVNG EHFYTAGLSQGPLKGSFLLFFNI LILVCPPIFRVSGNEVFRDKLM ERRNRRTGRTEKARIWEVTDRT VRTWIGEAVAPLLTCDNLKTC HTSHGSVMAETAVINHKKRKF SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIERY QLPQSYQRMPDFRRFLQVCV NEINSRTPMRLSYIEKKKGRQT THICDNLKTCHTSHGSVMAETA VINHKKRKNSPRIVQSNDLTEA AYSLSRDQKRMLYLFVDQIRKS DGTLCQEHGDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVVFYRPE/VGCCR*KRL*IFSLV YQTCAQSIQRALQCTYQPISHSL LYRVTEPVYTISAY

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24600	54968	A	24738	1295	1675	SVTSCLKVTSVCLTSGRRFLQIR ISDGTQEHDGICEIHVAKYAEI FGLTSAEASKDIRQALKSFAGK EVVFYRPEEDAGDEKGYESFP WFIAKRAHSPSRGLYSVHINPYLI PFFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIAWVIERYQLPQSYQRMPDF RRRFLQVSDFLMAPYRNIDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVVFYRPEEDAG DEKGYESFPWFIAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLCQY RKPDGSGIVSLKIDWIIERYQLP QSYQRMPDFRRRFLQVCVNEIN SRTPMRLSYIEKKGRQTTHIE HDGICEIHVAKYAEIFGLTSAE SKDIRQALKSFAGKEVVVFYRPE EDAGDERGYESFPWFIAHSP SRGLYSVHINPYLIPFFIGLQNRF TQFRLSETKEITNPYAMRLYQS LCQYRKPDGSGIVSLKIDWIIER YQLPQSYQRMPDFRRRFLQIRK SDGTLQEHDGICEIHVAKYAEIF GLTSAEASKDIRQALKSFAGKE VVVFYRPEEDAGDEEGYESFPWF IKRAHSPSRGLYSVHINPYLIPFF IGLQNRFTQFRLSETKEITNPY AMRLYESLCQYRKPDGSCIVSLK IDWIIERYQLPPRYQRMPDFRR FLRVWVQEINSRTPMPLLW
24601	54969	A	24739	1	1986	

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24602	54970	A	24740	1	398	MVDSLIA RVGV MARG NAITLP VCGR DVKFTL QVLR GDSVEKT SRVPPG NERD QEML TEDALDD LIPS FLLT GQQT PAFG RRVSGV I HTAD GSRR RKA AALTEK FCI VD NPPGEIRK RACLF IPTHAL NLR FEDIC YAHQLP DGG LLSAR VGV MARG N PILS P VCG RNV KFTL KV LRGDS VENP SRVWS GNERA QE LLTE HALDD LTL SFL LTG QQT P AFG RRVSG VIEI ADGS RRR KAA ALTES DYR VLV GEL DDEQ MAA LSRL GNDY RPTSPY ERG QRY AS RLQNE FAGN ISAL ADAEN ISRK I ITRC INTAK LPK SVVAL FSH PG E LSAR SGNERD QELL TEDAL DDL IPS FLLT GQQT PAFG RRVSGV IH TADGS RRR KAA /DTYRK ILYR ** PPGGD *KKS VPF YSNT C AQS QP
24603	54971	A	24741	1450	3699	RNPL QIPK QQNE KYQV PQFDQ STIK NIESAK GLDV WDSW PLQN ADGT VAEY NGYH VV FALAG SP KDAD DT S IYMF YQ KVGD NSIDS WKNAG R VFKD SDK FD ANDP IL KDQT QEW SG SATFT SDG KIR LF YTDY SGKHYG KQSL TTAQ IFQ MITV FITS L CNTT S SHICL HIS WV TTMHGAMP PHPG HIPTA PSLPA KVKG SGK V CWL AFPL SEL TPPS ALQVN VSKS DDTL KING VEDH KTIF DG DK TYQ NVQ HFIDE GN YTCG DNHT LRD PHY VED KG HK YLV FEA NTG T ENGY QGEES LF N KAY YGGG TNFF R KES QKL LQQS AKKR DAE LANG ALGI E LNNDY TLKK VMKPL I TSNT V TDEI ERA NVFKMNGK WYLFT DSRG SKM TIDV P QAK STNV VITS YMTN R G FF EPEG SKGS ITAA VMA KGL SV ASGN STPERRA TANEN VQ PRA IRDA EKAG RLPH PDME IGR VRE QRV GYTIEQ INHMRD VFG TRL R RAEDV FPPV IGVAA HKGG VYK TSV SVH LAQD LALK GLRV LLL EGNDP QGT ASMY HG WVP DLH I HAED TLLP FYL GEK DDV TYAI K PTCWP GLD IIP SCL ALHRI ETEL MRK FDEGNL PTD PHML RLA IE TVAH DYD VIVIDS A PNL GIGT IN VVCA ADV LIV PTPA EQLD IS\SS RQFFD\ILRD LLK NVDL KG FEPD

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24604	54972	A	24742	1	3899	MVDSLIAPIVGVMARGNAITLPVRATNVKFTLEELRGDSVEKTSRVWSEKKDRGGQEAEVSGEGSSQTKSLQKRQHSNGSDFTARGFHTGQALVRSKGTYWNPTGLGLSHGTEDPNLIGEELDAGEWDKNTRKELAVLNVRDFAFGTTIKQDFRLLGQTSVDRLLQLSQGQAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQVSRLESGQFWVFEGLRLVLERVTTPKGT\ASMYQGW\VPD
24605	54973	A	24743	268	2617	RMFRMKL\METL\SQCINAGHEMTKAIAIAQFNDDSPPEARTRKTRWRIGEAADLVGVSSQAIRDAEKAGRLPHPDMEISGR\VKHGVGYTIEQIYL\TRDVFGLPRAED\VFPPVIGVAAHKGVYKTSVSHLAQD\LA\KGLR\VL\VEGNDPQGTASMYHGWPDLH\IHAEDTLLPFYLGEKDDV\TYAIKPTCWPGLDI\PSCL\AHRIETELMGKFD\EGKLPTD\PHMLR\LA\IETV\AHD\YD\IV\IDSAPNLGIGT\INVCAA\DV\IV\PTPAELFDY\TSALQFFDMLRD\LLKTV\DLKG\FE\PD\VRILL\TKY\NSN\GNSQSPWMEEQIRDA\WGSMV\LN\VV\RET\DEV\KGQI\RMRTV\FEQ\AID\QRS\STD\SLSTPAAPMVDSLIA\RVGVMARGNAITLPVCGRDV\KFT\LEV\LRGDSVEKTSRV\W\SGNERD\QELL\TEDAL\DD\I\PS\FL\LTG\QQ\TPA\G\RRV\SGVIEIADG\SR\RKAA\ALT\ES\DYR\VLV\GEL\DEQ\MA\AL\SR\LGNDYR\PT\SA\Y\ERG\Q\RY\AS\RL\Q\NE\FA\GNIS\AL\AD\A\EN\IS\RK\I\IT\RC\INT\AK\LP\KSV\VAL\FS\HP\GEL\SA\RG\DA\LQ\KA\FT\DK\EE\LL\K\QQ\A\SN\L\HE\Q\K\AG\VI\FA\EE\VI\LL\T\SV\LT\SS\AS\RT\SL\SS\RH\Q\FA\PG\AT\VL\Y\KG\DK\MA\NL\DR\SR\VP\A\I\RS\Y\IR\CG\RK\G\FA\SA\GV\GG\CR\G\W\LN\YA\ASE\Q\IV\LR\V\HH\MR\CE\I\PH\RC

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24606	54974	A	24744	1	2624	MTPQKRGYLYCKAGARNLDVLL EGCEIFLLIPGMRSESGVSDA DTVSAPRKKHSLEQQIFRAQVE ASKPSSVPACIVVGNVSGYQFP PGTSYGPDSSESELGYREKFMF VGTMNEAGNPPFSANYSKAKK PKPRMFSLIERMSPSPRVGSQLV QSSCFRDIPFEQDQMFPHPSLVL RSKEQQPLLTQSIGVNSARKAM AKRRRHRRRRRVSGVLP\IA\VG VPS*SVHLPKVLSCSGASWI*QS CISRLGRLSPTRLMNVA\GNDP QGTASMYHG WVQILHIADT LL/PFY/LGEKDDVTYAIKPTCW PGLDIIPSCLALHRIETELMGKF DEGKLPTDPHMLRLAIETVAH DYDVIVIDSAPNLGIGTINVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVNDLKGFEPEPDVRILL TKYSNSNNGSQSPWMEEQIRDA WASMV*KINNVRNANEVGKDT LKGFYSLKERPLGNHFLGPNNR PFGKIMKHKTPAFGRRVSGVIEI ADGSRRRKAALTESDYRVLV GELDDEQMAALSLRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSHPGELSARSGDALQ KAFTDKEELLKQQASNLHEQK KAGGFCCRFRNHQTGFSPAGA NQRGPLAATLSGPGGEGQSAV ARLTGEKKNHPGAQYANRLSP
24607	54975	A	24745	1	385	MWQAISRLLSEQLGEGEIELRN ELPGGEVHAAWHLRYAGHDFF VKCDERELLPGFTAEDQLELL SRSKTVTVPK\AFILGQQIARLH QWSDHAVLKIVTTGVL*GAYV GAPSIWKCPERITLPGYHQ
24608	54976	A	24746	1	1209	

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24609	54977	A	24747	1	857	MHACRSELLGEGEIELRNELPG GEVHAAWHLRYAGHDFVKC DERELLPGFTAEDAQLELLSRS KTVNRALKVWA\VGADRELTV FLV\MDYLPPLDAHSAFILGQ QIARLHQWSDQPQFGLDFDNA LSTTPQPNTWQRRWSTFFAEQR IGWQLELAAEKGIAFGNIDAIVE HIQQRLASHQQPQPSLLHGDLWS GNICALGPDPGYIFDPACYWGD RECDLAMLPLHTEQPPQIYDGY QSVSPLPADFLERQPVYQLYTL LNRARLFQQQHLVIAQQSLDRL
24610	54978	A	24748	1	2094	
24611	54979	A	24749	1	1209	MVREDLYTYYSCNTSREQQQL ENPMESPLCSKEINQGGVFMLA GKASDTLLAGGTMNNLGGEDS DTIVENGSIYRLGTDGLQLYSS GKTQNLNVNGGRAEVHAGTL ENAVIQGGTVILLSPSADENFV VEEDRAPVELTGSVALLDGAS MIIGYGAELQQSTITVQQGAPP VKLRFALYGRPGFTKCGWMLG YKPAHDKTLRITRGHDFACYQ RTTQLARQRLKVCSHLIVGLP GEGQAECLQTLERVVETGVDGII KLHPLHIVKGSIAMAKAWEAGR LNGIELEDYTLTAGEMIRHTPPE VIYHRISASARRPTLLAPLWCE NRWTGMVELDRYLNEHGVQG SALGRPWLPTENSLMKQIRLL AQYYVDLMMKGLVRFSMILL AWPSSFLPLWYKWR
24612	54980	A	24750	200	310	
24613	54981	A	24751	1	4398	MCIPVPIATGDRHFIAVAHIHQ NSRRSPVDSDESSTRSAVAAH ATRDFNVRALYTVTSSVSPTKP PLPATFRQGRYRPAEPCVGSIG VIPQSSCVLANGSTGAQSAFGDI IRAGPPSAGLVPVAQATVIETFL RYQTINERDFWAARNRLLKQP YGSRILRFTEAYAIAERAQSV LRISLADAFNVDGPRPAEDSIFR LLRMPGSAVQRPDRRHNRRCQ YRPAMAFPAGSKANKQRQYNG GRQFYRKRICWL

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24614	54982	A	24752	939	2169	RPASPPARDGARWSTGLHSSYS AMRCRNASCTCAEDSQLS/DPLA R/PSVASGPYRVTSWKLGQNIV YCRVKDYWPATLTVNRGRWN FDTIRSDYYLDDNVAFEAFKAG AFDLMENDAK\NWATRYT/G DRRVREAITLAFDFEWMNKAL FYNAWSRTNSYFQNTEYAARN SPPPPELVLLPPIKKVLPSEVFP\QIYQPPVSKGDGYDRDNLLKA DKLLNEAGWVLKGQQRVNAT TGQPLSFELLPASSNSQWVLPF QHSLQRLGINMDIRKVDNSQIT NRMRSRDYDMMMPRVWRAMP WPSSDLQISWSSEYINSTYNAP GVQSPVIDSLINQIAAQGNKEK FLPLGRALDRVLTWNYYMLPM WYMAEDRLAWWDKFSQPAVR PIYSLGIDTWWYDVNKTAKLPS ASKQGE
24615	54983	A	24753	3	450	
24616	54984	A	24754	2	203	PLPDAARYLRRQCQKPARVHDI FAAMHTAHRSRPDRPSLPDDAF SSLRL*FFQPEHYPRQYQHRHL CS*ERYQHQALSRTFRSG*PTP SVPETSTGSRYFCGNAHSAPKP PRPPITTGRRVFFTTPLILPTRL PASISTPASL
24617	54985	A	24755	1016	1219	
24618	54986	A	24756	1695	2021	PDTFSMLPATRFLPPLQFPDLQH PEAAQYAHWLPASGCFLFLPPP GSGTVFLLPYPPSPRLCRSTSETP LPAITR*HFPTDRVQK*ITRRR KPRHKPFYPDDLQRDAR
24619	54987	A	24757	1671	1911	
24620	54988	A	24758	513	1104	CWRNCARCERNLVFRCQYGIY WCDNAANRSCRTKRDQPRLVE W*KSACSHHR*LH\PCGHCRQF MNELNGLDLRIHLPGREAHAL RDYLPDAFGPKDLEIKTLLMDE QDHGYALTGDALSQAAIAAN RSHMPYSKSPSGVALECKDGRIV LVAATLKTPH/INPTQICGQPWS MHRRALTSKFGAHGDRRTSAG FRRN
24621	54989	A	24759	131	759	
24622	54990	A	24760	662	889	LPIKCRAARGVPARCLRWTRW ALRRILPPLRNRSAASRWRAS PGARK*WMPSLQAVWAAPMR VTRLPAWLWKC

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24623	54991	A	24761	1	1518	MQRRDGDIALIYRSKIGPRTSITFTARRANPVQRIAARILLRDHLICRMSCTAARHANTFDLIQGSGADNFAAIYGGANDRITRADAAVAGAGNWHRGISNGKLSPRSITRTSSPARAMTKMPYNPQASGSNLAVSNPELDKLIARVAALRAANPDASASVPVELVTASASYPRSLMRCNRILSPGSARGQMIITALFIYAGNPIACVAALEVLKVFEQENLLQKANDLGQKLKDGLLAISFWRAKWLKIFVVCGAEIFVEYVLKNKVIWLLCFANIFLYVVRIGIDQWSTVYAFQELKLSKAVAIQGFTLFEAGALVGTLLWGWLSDLANGRRGLVACIALALIATLVIPFHMVFHPNEQYAYCVNELNSSVDVWELKDPHGNIECVQTLDMMPENFSDTRWAADIHITPDGR\HLYACDRTASLITVFSVSEDGSVLSKEGFQPTETQPRGFNVDHSGKYLIAAGQKSHHISVYEIVGEQGLLHEKGRYAVGQGP/MW
24624	54992	A	24762	3	486	ACRRLAKD\AGVEADEVLEVVMVGGSTRVPLVRERVGEFFGRPPLTSIDPDKVVAIGAAIQADILVGNKPDSEMLLLDVIPLSLGLETMGGIVEKVIPRNTTIPVARAQDFTTFKDGQTAMSAGGAHIRVTFQVDADGLLSVTAMEKSTGVEASIQVKPSYG
24625	54993	B	24763	1	2469	
24626	54994	A	24764	1255	1761	ESFQVRTHGTGEPVNKTRTSQAVSHHNQSCQVDQCVPCAVIAGNVFPRHNVQGQH*RNCQQTNRSSINDFTKLSNTRPISVHSLGIKQSRPDRHAKASPVTAVKACEQVIAAVNQIADDHQPDRTKQRNAIVVADDLPLDFPVHFGVDHQQHNHRDKKKQPGEDLLCC
24627	54995	A	24765	1	3141	
24628	54996	B	24766	1	3969	

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24629	54997	A	24767	643	2082	GAHAMDKHFSTTPAENKNLPVL LALIGIWYNFFDKNDALVMV DDFPRRSGLSWKIVVVPHHEYW VGGSTRVPVLVRERVGEFFGRPP LTSIDPDKVVAIGAAIQADILVG NKPDS EMLLDVIPLSLGLETM GGLVEKVIPRNTTIPVARAQDF TTFKDQGTAMSIHVMQGEREL VQDCRSLARFA\CVVFRRYRL/A GAHIRVTFQVDAGLLSVTAM EKSTGVEASIQVKPSYGLTDSEI ASMIKDSMSYAEQDVKARMLA EQKPGQQEAKLALKTFHWQQA IADKRVIGAGITGVTAGTDHRA DVTEVASDFRVQTTNADSLF HVRSAQQHIHQLLHFTTHLLCQ LAGLDHVVFQQIATNPADQVQ AVGFRTGKDLCHFHGGFTHA EELHKAGVEAGKVTGQAKVEQ MRVQAFYLQQNGADHLRTFW HLNTHRVFHRRGVGGAVGKA ADPAHTVREEGHFVITHTGFRQ FFHAAMDVEQ
24630	54998	A	24768	1	502	

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24631	54999	A	24769	1	2345	MFMIGALVLALVMTLITFMVL RRIVIRPLQHAAQRIEKIASGDL TMNDEPAGRNEIGRLSRHLQQ MQHSLGMTVGTVRQGAEEIYR GTSEISAGNADLSSRTEEQAAAI EQTAASMEQLTATVKQNADNA HHASKLAQEASIKASEGGQTVN GVVKTMGAMSTSSKKISEITGR HQQGIRTPVTAVKGRCGPLDE GDTDTAYYALRDIFALTPNRKR LAIPVSTDNPKGPKCKDPSLSKD VSNRVPQRVPCYDSPRSSSVNG NRLPGKDFHDDERSMGRSGSY VLALAYPPKIALSDADSVTVNV AGWQGEISREQFNEELIAPLVKR TLLACRRALKDAGVEADEVLE VVMVGGSTRVPLVRERVGEFF GRPPLTSIDPDKVVAIGAAIQAD ILVGNKPDSSEMLLDVPLSLGL ETMGLLVEKVIPRNTTIPVARA QDFTTFKDQQTAMSIHVMQGE RELVQDCRSALARFACVVFRYYR LAGPVDLFLRPWEVDISRRTSL DSPLPVQVLEASPKGHYTQLVV QPLGWYNEPLTVVMHGDDAP QRGERLFVGLQHARLYNGDER ASRDPGFLMARFVTCRDKTRK LRIRQHHVWIEIVSTLEQTIGNT PLVKLQRMGPNDNGSEVWLKE GNNPAGSVKDRAALSMIVEAE KRGEIKPGDVLIEATSGNTGIAL AMIAALKSYRMKLLMPDNMSQ
24632	55000	A	24770	313	676	DCQPRSSAFTKPDATTAGHYLA GSGGRMTQLAIGKPASLGAHLE REGGENFTFDSLNADEGEKL/CVF DANGQ/EHRYDLPGHSGDIWH/ G/YLPDARPALRMVSRH/GP/WQ PAGGMLTPAVVMILPRK
24633	55001	A	24771	1760	2053	FRVHGKNAFSH*IKPAAMLLPS SPVTRSVKPTQCGSAPSKRPNL TLLPSITLMPPLPVTDLKGIA PCSSDCFSITFSISCATRLSVNW LPAAGQ
24634	55002	A	24772	296	732	
24635	55003	A	24773	606	695	
24636	55004	A	24774	1520	1737	PVHGLCGTRRDAGS\PAIYPFHS LML/RFWLR/TCTVPGWPLDD SLAGEAFSAFTTDAAVWSLISA TAMLAVQAG
24637	55005	A	24775	1	1049	

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24638	55006	A	24776	248	933	RTTMRAVSRPKYCSRERWL/HY DFTVARFDENASCCTFAATSAV VLIFSHCLRLLCRVVVLVTRVN FQFTEHSTTQRAFWQHAFNRDF NHTLRTASNHLFKGRLFDTTDV AGVVIVHFVSTLVAGYSNFVSV QNDDVITGIYVRSVFRFVLTAQ ATSQFSSQTAQSFTGRVNNIPV AFYGFWFSCAKYYRHGARWCS NGRKIDQRHTHCFFCPCIRTDFA VEIGKEEFIT
24639	55007	A	24777	219	3441	DCQPRSSAFTKPDATTAGHYLA GHSGDIWHGYLPDARPGRLRG YRVHGPWQPAEGHRFNPAKLL IDPCARQIDGEFKDNPLLAGH NEPDYRDNAAIAPKCVVVVDH YDWEDDAPPRTPWGSTIIYEAH VKGLTYLHPEIPVEIRGTYKAL GHPVMINYLKQLGITALELLPV AQFASEPRLQRMGLSNYWGYN PVAMFALHPAYACSPETALDEF RDAIKALHKAGIEVILDIVLNHS AELLDGPLFSLRG
24640	55008	A	24778	454	586	
24641	55009	B	24779	130	1557	
24642	55010	B	24780	92	2808	
24643	55011	A	24781	2	1051	WRLRPITPLWRWQKIFFPDA/R YGIRFRNLETGNWYPEL LDNVE PSFVWANDSWIFYYVRKHPIFI DLTTEELAASSYHESWVLEDRII KDGSYNIDQGVGVRAISGEKTG FAYADQISLLALEQSAQAARTI VRDSDGDGVQTLGAVEHSPLY TSGRSGWQSMSREEKLDILRRV DKVAREADKRVQEVTA LSGV YELILVAATDGT LAADVRPLGK VLLVGQSPNAELSARAKQIAM GVDGANEVYNEIRQQPIGLGE ASNDTWITTKVRSQLLSDLVK SSNVKVTTENGEVFLMGLVTE REAKAAADIASRVSGVKRVNR TLFLGYAVMFSELILAPVTPSNS
24644	55012	B	24782	1	2079	

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24645	55013	A	24783	1	3214	MGAEKQLIPDGCGVSYIPSSGP LDKWRALLFIQPDYRADPVYR QIITITDLRILYDYTENFVLPLSH DEVVHGKKSIIDRMPGDAWQK FANLRAYYGWMWAFFPGKKLL FMGNEFAQGREWNHDASLDW HLLEGGDNWHHGVRQLVRDL NLTYRHHKAMHELDFDPYGFE WLVVDDKERSVLIFVRRDKEG NEIIVASNFTPVPRHDYRFGINQ PGK WREILNTDSMHYHGSNAG NGGTVHSDEIASHGRQHSLSL
24646	55014	A	24784	1	1079	MKQIKEQLQRLLGKKTWKMNS KKPLNMDGPKVDSARALIGRG WGTHKFYRCDCIKPTIKTNTSS RGNEKNPDGSHNNIHNSWFRL LTSQNMCKVPESPAILVDVGQS AETVQSVLTVKVEHPILRIAVA GYACQRQSCLLAMRHPQYAIN SSKVVVKPCSTARQPFQKAYAYP PVVRAFPAINVGISGNKLTNDR RYGRTSNKAWGSGDGHTLSEC GWAPLAAGDNVGKVSYQTLG YYQRILGYIFYPIAW/VMGVPSS EALQVGSIAMA/TKLVSNEFVAM MDLQK/IASTLSPRAEGIISVFL/ VSFANFSSIGIIAAAECRDWFG ILAAQTLAVRAALRVVQAERD CVLSMEQHQCARGRQR
24647	55015	A	24785	121	258	LTEPRHYCRSIQFFGLTNMGQN CYQLS*E*FIGTLNHIRRIPQPLS
24648	55016	A	24786	1	470	WGSGDGHTLSECGWAPLAAG DNVGKVSYQTLGYYQRILGYIF YPIAW/VMGVPSSAQLQVGSI A/TKLVSNEFVAMMDLQK/IAS TLS PRAEGIISVFL/VSFANFSSIG IIAAAECRDWFGILAAQTLAV RAALRVVQAERDCVLSMEQHQ CARGRQR
24649	55017	A	24787	1324	1539	GWCGCEVPFKITDGLACLLQSP QGHQTFCFT*HNLGLQPFWIPM CLCSVNVFKTRLILTQVEEGCR AVSMTQ
24650	55018	A	24788	71	403	RTTFIFDLSSGWPFLWQVLSPN *RCLQVGLFAQIPTGRMGCLHR FLTCRMGVCTDSSPAGWAVTLI RMSPIFPASSKSTLSAALLNTSC LHSRDLEPPGAFRSGGPVLL

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24651	55019	A	24789	309	1653	SVLMDESDIYRNNRERFFCVFL LVGVPARGACLGGGGGCGLCV RYLRSAGWCGRRFPCVGDN WSAILAHIGKPEELDTSARNAG ALTRRRREIRDAATLLRLGLAYG PGGMSLREVTAWAQLHDVATL SDVALLKRLPKCRHWFGILAG QTLAHIRVLPVIIRAIIGFLLSKV NGMGKLESFNAVSSLILGQSEN FIAYKDILGKISRNRMYTMAAT AMSTVSMSIVGAYMTMLEPKY VVAALVLMNFSTFIVLSSLINPYR VDASEENIQMSNLFEQQSFFEM LGEYILAGFKVAAIVAAMLIGFI ALIAALNALFATVTGWFYGSIS FQGILGYIFYPIAWVMGVPSE ALQVGSIMATKLVSNEFVAMM DLQKIASTLSPCAEGIISVLLDSF ANFSSIGHIARAVKGLNEEQGNE GSRFGLKLVYRSTLVS\VLASI AALVLSDHT
24652	55020	A	24790	754	957	
24653	55021	B	24791	75	3707	
24654	55022	B	24792	75	264	
24655	55023	B	24793	344	461	
24656	55024	A	24794	1	2203	
24657	55025	A	24795	20	198	
24658	55026	A	24796	1239	1409	RGPPTPFFHVWEWQQRPLSVW EADHV*RRDEGACPRMVARAR NCRPKLLELRAESQ
24659	55027	A	24797	1325	1564	
24660	55028	A	24798	323	694	TGYARQKPVPALEGWWTNVSAS TAPPILPSITGSRLAVIKWLTVS AGKLSALLCASCQKGGGAKWR MAMANGITNKLAIQCSPPHSTI EKFTSQSQHVLA*GVSARVSM VSSG*GRRPLPALG
24661	55029	A	24799	4708	4878	
24662	55030	A	24800	20	199	
24663	55031	A	24801	743	1186	

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24664	55032	A	24802	1394	2651	KLMTCRHEGSLGDDPGINGQL WDVNRIDVTAHEGTWERWTV RADEPQAFHIEGVMFQIRNVNG AMPFPEDRGWKDTVVWDGQV ELLVYFGQPSWAHFPFYFNSQT LFSWPQYWAAACFGPAPFLPMS REEMDQLGWDSCDIILVTGDA YVDHPSFGMAICGRMLEAQGF RVGIIAQPDWSSKDDFMRLGKP NLFFGVTAGNMDSMINRYTAD RRLRHDDAYTPDNVAGKRPDR ATLVYTQRCKEAWKDVPVILG GIEASLRRTAHYDYWSDTVRRS VLVDSKADMLMFGNGERPLVE VAHRLAMGEPISEIRDVRNTAII VKEALPGWSGVDSTRLDTPGKI DPIPHPYGEDLPCADNKPVAPK KQEAKAVTVQPPRPKPWEKTY VLLPSFEKVKGDKVLYAHASRI LHHETNP\AVPAH

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24665	55033	A	24803	1	2126	MQEKQVLAAYVQPSSEGQSR RRARRVSQCHQHSAAAASLAR TAASATADSAHPPCPRSAARAG ATMHVKYLLKGLHRLQKGPG YTYKELLVVYCDNTNTHGPKR IICEGPKKKAMWFLLTLLFAAL VCWQWGFIRTYLSWEVSVSL VGFKTMDPPAVTICNASPKYS KIKHLLKDLDEI.MEAVLERILA PELSHANATRNLSFSIVNPTP\L VLIIDERNPHPMVLDLFGDNH NGLTSSSASEKICNAHGCKMA MRLCSLNRTQCTFRNFTSATQA LTEWYIILQATNIFAQVPPQELV EMSYPGEQMLACLFGAEPCKY RNFTSIFYPHYGNCYIFNWGMT EKALPSANPGTEFGLKLILDIGQ EDYVPFLASTAGVRLMLHEQR SYFPFIRDEGIYPMMSGTETSIGVL VDKLQRMGEPYSPCTVNGSEV PVQNFYSDYNTTYSIQACLRSC FQDHMIRNCNCGHLYPLPRG EKYCNNRDFPDWAHCYSDLQ MSVAQRETCIGMCKESCDTQ YKMTISMADWPSEASEDWIFH VLSQERDQSTNITLSRKGIVKLN IFFQEFDYRTIEESAANNIVWLL SNLGGQFGFWMGGSVLCLIEFG EJIDFVWITIQLVALAKSLRQR RAQASYAGPPPTVAELVEAHT NFGFQP\DTAPRSPNIG\YPGEQ ALPNPG/TPAPPNYDSWRLQPL
24666	55034	A	24804	905	1051	
24667	55035	A	24805	1	1257	
24668	55036	A	24806	1	3116	MPIITLPDGSQRSFDHPVSVAEV AQSIGAGLAKATLAGKVDGRLL ITPKDEEGLEIIRHSCAHLVGHA VKQLYPTAKMVGIVGPVIEEGFYY DIFFERPFTPEDMAAIQCRMRE LIDKDYDVKKMTPRAEVIELF KLQAAPDRRHAGREGHGLYFH EEYVDMCRGPHVPNTRFLKAF QLTKISGAYWRGDSKNEQLQRI YGTAWADKKQLAAYIQRIEEA EKRDHRRIGKQLDLFHLQEEAP GMVFWHPNGWSVYQ
24669	55037	A	24807	1924	2790	
24670	55038	A	24808	1	1185	

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24671	55039	A	24809	823	5990	MARPVPLWSSWGLRTSYLPKP LSVNPSRNDGSA/FAGTHPLGV TRGTLAGPAFVRLSLVFLLRRV LAGSSLLPLLMG*QK/PEVLLPD GASEHDYSLRPSDVKRLQNAD LVVWVGPEMEA FMQETGKQIT RSEVSPLCRRVAFNKFNRDPQP RYDWGRLTVLYSGSSLGGRY VVIIRECHCQLSKPLRLEQNEIR SLLPEASEPIDQAAQEDEAIPQD ELDDKIAGEAGVHEYVVSTGD TLSSILNQYQGIDMGD
24672	55040	A	24810	2305	2550	
24673	55041	A	24811	665	844	ISFNNEVISYRLSGKNQ*LN LG* EIWLES GAFKKALSPQKHPGLE PSVCTPTPTLV PDR
24674	55042	A	24812	1	2031	
24675	55043	A	24813	106	912	HFETVIDQRDFHPVFSHKGIRAT PEGNEEKGQQRVADVTEQCGRC RCQPPAATLTQAVKNVHVEDL PQRVGHETGGGDTGDKQVEVG ECAESHTLDALGLRCPEPVMM VRKTVRNMQPGETLLIADDPA TTRDIPGFCTFMEHELVAKETD GLPYRYLIRKGG**GLIGFDAAF SPHPNPLPRGARGPIALNVAIGL PYLLRNNLNNAFAVTSTVAPVSA STASHNPVIQRGDEEDPFQPQR NSDVLADIGVSGACQFNHLHQ AAQVVMG

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24676	55044	A	24814	1	1495	MQKLTLYAETRRLYKDEVYH RPSRFIGELPEECVVEVRLRATV SRPVSHQRMGTPMVENDSGYK LGQQRVRHAKFGEGETIVNMEGS GIAALCHCRVLIATAALMDPDD AVELSVTTMMFALCNTRNPRV AWDTAPCPVATTAASMAKRAP DMSQSAAPEAGSQKPPRLSCGE SLHPLPATKRAYNYCRPVGRIR HLCRIRQSMPDATLSRLIRPTTV ADPPDKALAPHPAVFTRGDSKF LSHKPAPSPAIRYLLASVWGPV GMMAMMLAMTGFVVATRKL RRFGFKSCKNGVLYRISSSSITT SPASPIATCRPVLPCLCWMRMDPM LDMMGMQMLMEKYGDQAMA GMDHSQMMGHMFLGHKVIRA NHVGDWGTQFGMLFRIAVENTF KEDWEAVWDQLDDLNLEGKIV A*GRDPAAFHIDNGAFTKLSVA YALAEVAAVVLDDHRRTHPLM ADRAAYRGAQAHLFHTLFRQL ADKARRAMVNLFITQTAGFRV GQRQFLH
24677	55045	A	24815	3	707	GCTLGPVKFSLRVAWLSWPQ YFYIIERACSPCCGPLAPGEAPH VNLFHSTHSENKKQPHNSPYHN DIQPTLNLYLPTNQKKQTQQEQS HNITKQGSQQLHDVTQVPYQAY RSAIVVGLIRRDSVASGIDCRM RRERLIRPTGRASDNTTEFTGTQ NMQNITHSWFVQVMIKATTDA WLKGWA*AQRRQPDATPG*RR YRTISRQFPATSVLYPAQPAHA FTGKYTVYCHRLGQILP
24678	55046	A	24816	2	1340	
24679	55047	A	24817	1	2457	

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24680	55048	A	24818	41	1053	QRNQQAHLSF/QHSRDIYDNQV HLVRNCNLEMPDQEIVLYGPS DCGKSTTLRMIAGLEEISGGDL LIDGKRMNDVPAKARNIAMVF QNYALYPHMTVYDNMAFGLK MQKIAKEVIDERVNWAAQILG LREYLKRKPGALSGGQRQRVA LGRAIVREAGVFLMDEPLSNLD AKLRVQMRAEISKLHQKLNTT MIYVTHDQTEAMTMATRIVIM KDGIVQQVGAPKTVYNQ PANM FVSGFIGSPAMNFIRG TIDGDKF VTETLKLTPEEKLA VLKTQEV CPDHTLDALGLRCPEPV/HDGA QNRAQYAAWRNVADYRRRS HYPRYSWVLYLYGTRTGC
24681	55049	A	24819	3	131	
24682	55050	A	24820	247	492	
24683	55051	A	24821	2	241	YFFQKSSKTVIGGRRCSVFRY QFSIVLATC*GTFFPSR*STILS* VTQSATSSGREGRSSRSNGRF MFSIASMMSW
24684	55052	A	24822	1	1143	

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24685	55053	A	24823	242	2151	FSRQHVVKMKHCCKNVVILMP EPVAEPALNGLRLNLRIVSIVMF NFASYLTIGLPLAVLPGYVHDV MGFSAFWAGLVISLQYFATLLS RPHAGRYADSLGPKKIVVFGLC GCLSLGLGYLTAGLTAVCLSSA VILCRGVQLHPVSDLRIPRGEK AGRNRSDGCCEKAMSVIIVG GGMAGATLALAISRLSHGALPV HLEATAPESHAHPGFDGRAIAL AAGTCQQLARIGVWQSLADCA TAITTGHVVELHNVGQRLFA\L LRKAPGVTLHCPDRVANVART QSHVEVTLESGETLTGRVLVAA DGTHSALATACGVWDWQQEPYE QLAVIANVATSVVAHEGRAFERF TQHGPLAMLPMSDGRCSLVWC HPLERREEVLSWSDEKFCRELQ SAFGWRLGKITHAGKRSAYPL ALTHAARSITHRTVLIQSERLNH KALEKRTLTWWDNSFLIYRQSD VSEIRLASLFASFSIRSKQQAR KHTNRRSKDKEKRTQKRKT SRQRRRRQRMVRVGDEQIAGC HCLYSTGSPNRQLREAGIELSDF VRGNEKARERMKAQYSIAGMT SGVVVGTDHAAEAITGFFTKYG DGGTDINPLYRLNKRQGKQLL AALACPEHLYKKAPTALEDD
24686	55054	A	24824	2	91	
24687	55055	B	24825	1	2346	
24688	55056	A	24826	1	1713	
24689	55057	A	24827	1	918	
24690	55058	A	24828	415	816	
24691	55059	A	24829	72	296	FCSATFGRPSDQYQNGE*LRWR GLGSFACQSPAHENPQWKFVL ARRGFARGTAEAHPSQYRHWC KIHRLNPGLR
24692	55060	A	24830	1	620	

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24693	55061	A	24831	1625	2460	GVVNPRQGRVLSMLPAMLLYL LFLLIQTSLKSNGGKGKLDPTL WMWTVNLIYLALAIVLNLWDT VPVRRRLRASF SRKGARIPFVGC RETCELPQIELVKMMLGRELDT HALQRAGRTLLSDKPVAAFKN YGKKGTIAPPFDLEVRPGEIVGL AGLLGSGRTETAEVIFGIKPADS GTALIKGKPQNLRSPHQASVLG IGFCPEDRKT DGI AASVRENII LALQAQRG\CYVPFP AKN SKRL PNALSASLAFAHQLQNNRLNFS PAAISKKCCFVGY
24694	55062	A	24832	1	2034	
24695	55063	A	24833	3839	3970	
24696	55064	B	24834	694	765	
24697	55065	A	24835	1778	1982	
24698	55066	A	24836	1	268	MTCRLLTRLPGQAGVGKRVSG VPDELSPLFSVGSRYLQGGVGL VSPTSGANVGLPVISTNNLVKE CR\DGKWMTEKGCLNMFHFK
24699	55067	A	24837	568	713	
24700	55068	A	24838	217	1910	AFTFQESVMAFSQAVSGLNAA ATNLDVIGNNIANSATYGFKSG TASFADMAGSKVGLGVKVAG ITQDFTDGTTNTGRGLDVAIS QNGFFRLVDSNGSVFYSRNGQF KLDENRNLVNMQGLQLTGYP TGTPTIQQGANPTNISIPNTLM AAKTTTTASMQINLNSSDPLPT VTPFSASNADSYNKKGSVTVFD SQGNAHDMSVYFVKTGDNNW QVYTQDSSDPNSIAKTATTLE NANGTLVDGAM/ANNIATGAIN /GLSFLNSMQNTGANNIVATT QNGYKPGDLVSYQ\NDDGTVV GNYSNEQTQLLGQIVLANFAN NEGLASEGDNV\WSATQSSGVA LLGTAGTGNFGTLTN/GSIESGI AFLVNVP LPNPKLKRVNVAGAR WHPYGWP AFAERA CLIEPEGD RRTHHRPNNQRTYSRKTQRQG GHKTRQDNWEQKG DGGPRPEP TDPHQHDANRPTVATKRRKS TQSQRNHRNPKGTHPTEEHT AGTTKPPDTPQTDNWTHKGSL REGKANRKR NPLRGAEVAGGG KQRAKAERQTQRGERREDVDE GEEDRSKKTEK
24701	55069	A	24839	500	653	

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24702	55070	A	24840	445	849	GSPGTAGTEVAVVLKIGGVHD KVI GHYRCSTTNTGRVLDVAI/S QNGFFRLVDSNGSVFY/SRNGQ FKL DENRNPATGTPPT/IQQGAN PTNISIPNLMQRKPTAGQIVLA NFANHEGLASEATTSGLRRNLL AWRCM
24703	55071	A	24841	1	453	MKQMDTRGKVINCAFVSAAF ALGDHLGFAANMNAMIFPMI VGKLI GGVT AIGVAMMLVPRY EFIGREISWQSPVFFTPVDKQGG LKEAELKTLILEQYHAAGIEPES VDSGAIITGESAKTRNAR*TGR FKRSGTENLKLEQYHAAGIEPE SVD SGAIITGESAKTRNARPTV MALSQSLGDFVVASAGPHLE
24704	55072	A	24842	370	670	YSSNIMLRVLSRKALILV PSSSP VKARKPAMLARRGWRSLSRW A ILSLPGPGR*TGRFKRSGTENL \\KLEQYHAAGIEPESVDSGAIIT GESAKTRNAR PAGMALSQSLG DFVVARAGPHLESVNAGYRTRI RNHGH SWFPGEIGIRSQFPHTLR TGSINGKAWGA
24705	55073	A	24843	1	1623	
24706	55074	B	24844	1	4986	
24707	55075	B	24845	65	726	
24708	55076	A	24846	4107	4460	FMSTCGYGGGLSRFPARCLSYQ PLRSW RETVAASG* RRTGSARA NCFCFSGLTRDFSIWRPETK*SA QTFVVGWTWRCGGMGR*IAAVL SRYSTVESGVSS THHRLPLQPD PSGRRL
24709	55077	A	24847	624	895	PLVPAYKQSQRQKPHDYLNR RKSL*QNSTTLHAKNSQ*IRY* WD/SISE**ELSMTNPQPISY*MG KNWKHSL*KLAQDRDALSHRS YST
24710	55078	A	24848	1434	1594	
24711	55079	A	24849	1294	1488	PAGKQTQQQRQQFANDGRGEI WRKLKPNPRRQKS*CSTDPRQ KSTLISQREAVIRRFSEAGNFH
24712	55080	A	24850	595	879	RR CSTTNIKKIQQDKKGNRKA VHRSRFVHGRPITLLFFQLSGRI QSHRLPGR AALFAGIPAACDQS PSLRQPISSEWSDGR*HRRIFRS* SEEF

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24713	55081	A	24851	1009	1478	YSLSVSVWAGATVMESPVWM PIASKFSIEQTMMQLSFLSRTTSI SYSFQPISDSSISNSLVGERSRPR AQISSNSSRL*AI ^P PLPPMVKD GRIMHGKPTSAATASASSIVCAI PERAVSRPIIFIATSKR ^R SSALS IASAVAPIMVTPNSSNTP
24714	55082	A	24852	48	209	GLFQVGYAENCRDNNHSFLH SVVIGSSSERVVAKK*PDADHF SASFVPVILK
24715	55083	A	24853	1358	3194	PTASFAATLAIGKPVAFDASAE ERDTRGFISITIRRPFFGFTANVT RLETERGGICSRSPVWEVVKI AWAEAPDPPGVTILGLKTQHAT /VSE ^R VTSRFTRSHYRQFDLDQ AFSAKIFDRYLNLLDYSHKRKT ELGDEAAFSAKLDVFYDLYNL AQKRRFERYQYALS ^V LEKPM ^D FTGNDTYNLD ^R SKAPWP ^K NEA ELNALWDNVFSLAMTAFAREI DPHTNYLSPRNTEQFNTEMSLS LEGIGAVLQMDDDYTVINSMV AGGPAAKSKAISVGDKIVGVG QTGKPMVDVIGWR ^L DDVVALI KGPKGSKVRL ^E ILPAGKGKTR TVTLTRERIRLEDRAVKMSVKT VGKEKVGVLDIPGFYVGLTDD VKVQLQKLEKQNVSSVIIDLRS NGGGALTEAVSLSGLFIPAGPIV QVRDNNNGKVREDSDTDGQVFY KGPLVVLVDRFSASASEIFARD VVVGLCICLSSLDVWL ^C GLFCR CSVDAERTKRQGKKGEESRKR RRKGYELSYLLFGWSAVVLLF VSDAEQH ^R ASRHGGNACQQHP DVRHDEADGYPRQSHQLRLRR FRCFRPGRPLRLRRCQHERHDL PDDCRQVDR ^R RNGDW ^R GDWRGDDA
24716	55084	A	24854	100	671	
24717	55085	A	24855	852	1335	YFCFWTYPLLF ^P VCM ^D RKAGK HG\APAGDLYVQVQFN ^S HPIFE REGNTLYCEVPINFAMAALGGE IEVPTLDGRV ^K LKV ^P G ^E TQ ^T GK LFRMRGKG ^V KSVRGGAQGDLL CRVV ^V ETPVG ^L NERQ ^K QLLQE LQESFGGPTGEHNSPRSKSFFD GVKKFFDDLTR
24718	55086	A	24856	326	471	PLQTHPAPQQRGHPIYQHGQTV S*SCRRRGWSSISRPV ^I HADAQ LMP

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24719	55087	A	24857	1095	1283	SCRRRGWSSISRPIVHHADAQL MP*PQIVYQHLKPPGIYRQQDR L*IPD*RPVLTIQDVRGP
24720	55088	A	24858	1	1159	
24721	55089	A	24859	1744	3019	KISPRRPQET/CFQKSTNIAREKT LEQEFSVQLFEKIGRRMCLTRE GKLLPHIYELTRVMDTLREAA KKESDPDGEELRVVSGETLLSYR MPQVLQRFRQRAPKVRSLSQL NCYVIRDALLNDEADVGVFYR VGNDDALNRELGEQLSVLVA SPQIADVDFTEPGRHNACSFIN EPQCVFRQIFESTLRQRRTVEN TIELISIESIKRCVAANIGVSYLP RFAVAKELECGLIELPFGEQSQ TITAMCAHHAGKAVSPAMHTFI HALYSCRMRRERLIRATRSCQF NILHEPERRADKRSASGSLRLQE FNYQDKPCMEIRIRTYEKTPIR MDKGLTNFGSRWILPELAHKE KDEETQQRRKSKRDSRREETDT KKKTRDKATKREKDKEIEEMA SISITSRCEDKLENFSSMKYYTEI
24722	55090	A	24860	321	575	SYRRYVFPQAQ*NRHLQFAVKPP APVIVHPTLVDSEHHHSLHDKR RQHRPHHSVAHHGSRNNSATA TINALLGRVAQNAATRGTR
24723	55091	A	24861	935	1637	PQPPPLRREGAGLEKELGGR VRVKGSGCQPWICGKVPFIPV ITEQESFQELI/RRTTACESLGK EYEILMIDDGSSDNSAHLVEA SQAENSHIVSILLNRNYGQHSAI MAGFSHVTGDLIITLDADLQNP PEEIPRLVAKADEGYDVVGTVR QNRQDSWFRKTASKMINRLIQR TTGKAMGDYGCMLRAYRRHI VDAMLHCHERSTFIPILANIFAR RAIEIPVHHAEHS
24724	55092	A	24862	1020	1229	

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24725	55093	A	24863	98	1242	MDKFRVQGPTKLQGEVTISGA KNAALPNLFAALLAEEPVEIQN VPKLDVDTSMKLLSQLGAKV ERNGSVHIDARDVNVCAPYD LVKTMRASIWAALGPLVARFGQ GQVSLPGGCTIGAHIVMDKVSV GATVTIMCAAILTEGATHIEVFY FLPLAIGKFNELYPNIKVRL\EQ GTNNCM\ESVLCN\ESDFG\INM NNVTNSS\DFTPL\VQRRPFV\ ACRRDHPLAKKQLVEWQELVG YKMICVRSSSGNRLLIEQQLAD KPWKLDWFYEVRLSTSLGLV EAGLGISALPGLAMPHAPYSSII GIPLVEPVIRRTLGIIRRKDAVLS PAAPERFTLLSDFCPGVPSEDNI FESPASQQHEYIGSRQCFLMPSE TTGTMHV
24726	55094	A	24864	1	833	MAELGKRSSVAWSWIGKVKT AQMVLAWLWRPPIWVEYA GIALFFVAAVLTLWSMLQYLT RVQICLISDRFGVIFSKRSKVV NIVDSSRQEYLEEFYARYNVEL RAPEGFFYLRPRSTTLIPRSVLS ELDMMVGKILCYLYLSPERLA NEGIFTQQELYDELLTIADEAK LLKLVNNRSTGSDVDRQKLQE KVRSSLNRLRLGMVWFMGH DSSKFRITESVFRFGADVRAGD DPREAQRRLIRDGD/AMPIENHL QLNDETEENQPDSGEEE
24727	55095	A	24865	819	1428	SPRGISRGCGRCQPISGDG\RIFA GILHGLDNEPLQEEVEGNGLE QEGLPFPIRQSDALDLCFSDILV SPNMYIDDGMKRDWPVPMKQC ALQRRWRILPDHYGTEPAEKRP GFAPHYCFSYALLVHMMMAQQC DLEVGDFVWTGGDTHLYSNH MDQTHLQLSREPRPLPKLIHKRK PESIFDYRFEDFEIEGYDPHPGIK
24728	55096	A	24866	2	1445	
24729	55097	A	24867	1	1785	

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24730	55098	A	24868	3	654	VRFFKGRGSSWHMVISQWDYV ADRFGTADLLPFTISDMDFATA PCIIEALNQRLMHGVFGYSRWK NDEFLAAIAHWFSTQHYTAIDS QTVVYGPSVIYMSSELIRQWSE TGEGVVIHTPAYDAFYKAIEGN QRTVMPVALEKQADGWFCDM GKLEAVLAKPECKIMLLCSPQN PTGKVWTCDELEIMADLCERH GVRVISDEIHMDMVWGEQPHIS LE
24731	55099	A	24869	955	1278	TLTPDFL*QGHFFRFAGIAYQIV KQTTVGGTVEITLRRYVVDGNR IPPRQDRQGDAFFGFATHTQQW HQVFKRQRDIQIVTANTATTVT QQAGFTIETRTPLRPHQQQ
24732	55100	A	24870	1	1707	
24733	55101	A	24871	1	3615	
24734	55102	A	24872	1	1931	MLLLREHTDTRHDHPRTPTRAT RRRRHTEKKRKKKRPATHVL MTATLIPVSRLLATDQPQLFHE SASKPAPHLVSSLGCHCGDASC SGRAVADAMQFKTVFPVFVAA AMNPEHMAESGHRITRPEFPDY RELFRFRESDIKSAAVVDSCQCNTP FNYLFRCFELQCLSRHGHSAYG VMQRRHSPMQETRIASLPLQRY RWHEDSVRNRWF SVMV GPSVR VNEWFSAYAMAGMAYSRVST FSGDYL RQPLVSGFHEA
24735	55103	A	24873	1281	2234	ISTNSILRIFSGFRKLMEV/TRLR DTPILTFMNKLD/DIRDPMELL DEVENELK/IGCAPITWPIGCGK LFK/GVYHLYKDETYLIQEVRIV KGLNNP/DLDAAVGEDLAQQL RDE/LELVKGASNEFDKELF/LA GEITPVFFGTALGNF/GVDHML DG\FMAGDRSHVEEAY/PGDIL G\QGEMMKFTGIPNF/APELFRR IRLKDPBKQK/QLLKGLVQLSEE GAVQV/FRPISNNNDLIVGA VGV LQFDVVVARLKSEYNVEAVYE SVNVATARWVECADAKKFEF KRKNESQLALDGGDNLAYIATS MVNLRLAQERYPGRQFHQTRE

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24736	55104	A	24874	2	760	AKFEEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIFVA NIESKDPQQI/DRIQALAGWIAE QIGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVGMGHYAR HDGEAEDVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLRRIIVEKNLNLQTLT EEAVRLYGDKLTNANVVDDVI DFMLGRFRRAWYQDEGYTVDTI QAVLARRPTRPADFDDWHA
24737	55105	A	24875	2	391	
24738	55106	A	24876	2	1785	WLLYRAHVKG/STEALLPNM VATSLAKLPIPKLMRWGATYV HFVRPVHTVTLLLGDKVIPATIL GIQSDRVRGHRFMGEPEFTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEEAARKIGGNADLSE TLLEEVASLVEWPVVL/TAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYQPQFLPGCTGSRILES TPGQMTAAVDVSKAGISKTF RNQLTSNQSILMNLVDGPFKKL IGGWKFTPLSQEACRIEFHLD FTNKLIELAFGRVFKELAANMV QAFTRAKEVYSASMRYIYVIV YISYRPPNLLDSHIIGFSSITTHC AVTSHHYNSCDMTMTIHSYVT PYISVRVSLTQTYAPSRSNLRI TDLTIYRAISSEKSIDDTRHIHTI ESRCRVCGAHDSRDAERLDRF AQTADEIRIADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRFDMMGFLRGLDCALIS KTRLLSENRRKGRVVQAETLE AAGHVLLTSLPEDEYSAEQVA DCYRLRWQIELAFKRLKSLLHL DALRAKEPELAKGIFANLLAA FLIDDIQPSLDFPPRSAGSEKKN
24739	55107	A	24877	1	2022	
24740	55108	A	24878	2344	2523	
24741	55109	A	24879	82	732	

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24742	55110	A	24880	828	2184	SGCILPPESLRLWASVARRPRTP NQPRQPGPKIGGISPAGSALALA CGKRTVLFASLCRTGSQLGE \PALVLLADQMLALDDQYTFLQ RIPRSPYGLAFGPVPHLYHLHQ MRLLDIAPIAFRAMSLAFPVNY LDAVRTGSICSNCNQRSNDSAM GISMVNSTLMRVRAIWVYAA MERVLNDNLLNNALRYCHSTVE TSLLLSGN RATLIVEDDDPGIAP ENREHIFEPFVRLDPSRDRSTGG CGLGLAIVHSIARGNWATSDHR SLTGTQPYARIVVFLVRLIFA VTQLTLQISFVRFVVVQNAFP CPLGIGIDVHFYYAVAYGVDF LSSRTGTTVFFDDLNTPDFDRC FAFMQAVGKGYTDAYLPIVER RKAMAYGERERNFQLYRRGRY VEFNLPSELAATVYQSDPNFAT GCFRLYTSCTNFNMHKAATML VRAEFSQGYQHQV
24743	55111	A	24881	679	1628	PDADAKRVDITLCLAFGCDAQF IEITFTRLPEVRIHHLQSPASALS SCNHLLIRITQFNADITIGHHL VNRRVVTVLRDMRHGDIVHP GVRRGVEHYAAMDPGIVKEIM EVRLFLAVFVGNHHSRRDSL VQFVVHTNGDTYTFPGNNIRRD IGFKWRIAALMLHHFLIIDPHFA VMSDRIETQHDTLACPNFRYKD FALIPERCRII/SEYLDRTDRLK WCYAAFQQGDQSQASNPMYA KAPV*VRWVHGYKALSEKGHL VYQRLYQIFQHAEYQTGTNDA EISTKLCLFSSLLLLSSSLQHSI PPNACL
24744	55112	A	24882	1	1515	
24745	55113	A	24883	1954	2859	
24746	55114	A	24884	121	393	SLARWIICNTSEELAANIKRLGD VTVRLNAFHAHGVYGEAQSM GERHAGRR*AVG*CVKGARGE PVDISGAQL/RGCGVNALSGLR FGTDL

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24747	55115	A	24885	1	3706	MDLGANGWQTFRYVVLNLSS ALLAGGMLAFAFSFDEIIVTTFT AEQVDAAVRAADAFAEWGQ TTPKVRAECLLKLADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSLNLNKQKDLSA QDKLVQQDLTDTLATLDKIDRI KEETVQLRKVAEAPEKMRQA TAALTALSDVDNDEETRKILST LSLRQLETRVAQALDDLQNAQ NDLASYNSQLVSLQTQPERVQ NAMYNASSQLQQIERSRLDG
24748	55116	A	24886	2842	5034	NRVRLSPAMRCRWRRGSPMPAM FEVGVKTRIIQRSREVILMADHS KFDAAVEPHAVATLSCIKTIISDS GLPETIAQRYQRAGSSLPEAQP DREIEKRGPAIAQAFDAEGKPS KASEGWARGCGITVDQAERLT TDKGEWLLYRAHVKGESTEAL LPNMVATSLAKLPIPKLMRWG ASDVHFVWPVHTVTLL\LGDK VIPATILGIQSDRVRGHRFMGE PEFTIDNADQYPEILRERGKVI DYEERKAKIKADAEEAARKIGG NADLSESLLEEVASLVEWPVVL TAKFEFKFLAVPAEALVYTMK GDQKYFPVYANDGKLLPNFIFV ANIESKDPQIISGNEKVVPRPL ADAEFFFTDRKKRLEDNLPR QTQLFQQQLGTLRDKTDRIQAL AGWIAEQSGTDAGDQTGYSDE RWVPAHSEAPSPVSDMLSAL LLLTLVLAGMVRMAARLLMA KPPQAVNRGDIGWLTSPMVIL LVMMLAMGTHIPQPVIRIPGGR FHYSPHQGRDLPQAQRSTWHD FCLQAPHLFRRTNVNNSSNR GEAILAALKTQFPGAVLDEERQ TPEQVTITVKINLLPDVVQYLY YQHDGWLWVLFGNDERTLNGH YAVYYALSMEGAEKCWIVVK ALVDADSREFPSVTPRVPAAV WGEREIRDMDYGLIPVGLPDQRR LVLPPDDWPEDMHPLRKDAMD
24749	55117	A	24887	49	531	
24750	55118	A	24888	1619	1968	
24751	55119	A	24889	1	553	
24752	55120	A	24890	744	970	LAVISEASNQKRGDPVDHAD*I AVANMLLNQFQQSYTPMLHDL IVRYDGDIIHQKSFVGVQLPGKL RIVKLIQPVE

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24753	55121	A	24891	52	455	
24754	55122	A	24892	2988	3614	PVSVLTKRLSPATSHRSTCRVLNQAYVTPSKCWPDVVEISFNFHSEDVVRHPVVARJVNAYEWEEAEQKTMTPANQHAGGLVQCDKMLLQRRSREVIELSEQNAQMRRHVRGADMAMIFQEPMTSLNPVFTVGEQIAESIRLHQNASREAMVEAKRMLDQVRIPEAQTILSRYPHQLSGGMRQRVMIALASCRPAVLIADEPTTALDVTIQAQILQLIKVLQKEMSMGVIFI THDMGVVAEIADRLVLMYQGEAVETGTVEQIFHAPQHPYTRALLAAVPQLGAMKGLDYPRRFP LISLEHPAKQAPPIEQKTVVDGEPVLRVRNLVTRFPLRSGLNNRVTREVHAVEKVSFDLWPGETLSLVGESGSGKSTTGRALLRLVESQGGEIIFNGQRIDTLSPGKLQALRRDIQFIFQDPYASLDPRQTIGDSIEPLRVHGLLPGKDAARVAWLLERVGLLPEHAWRYPHEFSGGQRQRICIARALALNPVIIADEAVSALDVSIRGQIINLLLLLQRDFGIAYLFISHDMAVVERISHRVAVMYLGQIVEIGPRRAVFENPQHPYTRK\LLAEDPVAEPSRQRPQRVLLSDDLPSNIHLRGEEAVVALIKPGAQIGR\PQSWT
24755	55123	A	24893	134	595	IRTGRNESYKGDISRYKFVSARALRNEVRGGRCHKTIRRVSVGKKVIGLKFRHLVPVVTPE SIVIPPAPVANDTLVAEVSDAPQANDPTFNNEDLA*FAVLSTPTAILISC PGRWGPAAGSEC GVRAHahrELALRAFSCCCFSSNAISIPN
24756	55124	A	24894	708	1444	TDAPGDEEASLQRAAQAGVGKIIIVPATEAENFARVLALAENYQPLYAALGLHPGMLEKHSDVSEL EQLQQALERRPAKVVAVGEIGLDLFGDDDPQFERQQWLDEQLILV\KRYELPVILHSRRTHDKLAMHLKRHDLPRTGVVYGFSGSLQQAERFVQLGYKIGVGGTITYPRASKTRDVIAKLPLASLLLETDA PDMPLNGFQGQP NRPEQAARVFAVLCELRRPADEIAQAVLNNTYTLVNVP
24757	55125	A	24895	1460	1777	

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24758	55126	A	24896	381	482	IPGPQSPQSSPDLGWLQC*NP*R LLWKAPRSRK
24759	55127	A	24897	977	1144	
24760	55128	A	24898	2	280	CTFALRDEYPRMLNVNDNKGRL DHIELQPLAV/DASYPGGDFRK NAVYVPMW*SAHCEPEGRFAE TGSRRYGEDFASTAPGFRRAAT RKRVRRKR
24761	55129	B	24899	1	1665	
24762	55130	A	24900	296	495	
24763	55131	A	24901	1	5352	
24764	55132	A	24902	187	280	AVDTGLADIIRD\EPNMVARLP LSFTASLSIS
24765	55133	A	24903	1775	1981	HIWQNSLIVLFRGCRSAHAKVH RWKN*LPLNLAPLLPRSGSSAPI RPPPSAQARQPMKSTYGVDRR HS
24766	55134	A	24904	760	1473	
24767	55135	A	24905	1	2124	MNRMSGGYWQLFAESGETCR ARELEQCLEDFYDQRKESVRW HLDLHTAIRGSLHPQFGVLPQR DIPWDEKFLTWLGAAGLEALV FHQEPGGTFTHFSARHFGALAC TLELGKALPFGQNDLRQFAVTA SAIAALLSGESVGIVRTPPLRYR VVSQITRHSPSFEMHMASDTLN FMPFEKGTLAQDGEERFTVTH DVEVAKNAITEIKTQFEKEKLA QDRIKRNQ/LDANIQRNLNSLDI ANAAGIKKPVYSN\DGIERKLEI EKAVTDVAELNGELRNRQYLV EQLTKAHVNDVNFTPQYQLSP SLPVKKDGPQKAIIVILSALIGG MLYCRVCIKRNADSPEVFSGFS DPNVVLIAAVFIIGDGLVRTGV ATVMGTWLKVAGNSEIKML VLLMLTVAGLGAFMSSTGVVA IFIPVVLVSVAMRMQTSPSRLMM PLSFAGLISGMMTLVATPPNLV VNSELLREGYHGFSSVTPIGL VVLVLGILYMLVMRFLKGDT QTPQREGWTRRTFRDLIREYRL TGRARRLAIRPGSPMIGQLDD LKLRERYGANVIGVERWRRFR RVIVNVNGVSEFRARDVSLIAM SAADVDLRQFCSERLLEPDGIA RFSLIPSELIGESVREIGLRTRY GLNVVGLTRTGVALDGLADE PLLLGDISWLWALESDRYAAM LGRSRSLTYRRGDEHCRASRSP

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24768	55136	A	24906	834	993	EEIEVARLRDQKSAEGGIQNRE YWPGRSGHR*SPHAPIGTQFLQ ALFQTWDQFVFA L SACGRRHP TDGRRQNPAVSGHSVAARQPA HSQTDEASG
24769	55137	A	24907	3519	5161	
24770	55138	A	24908	374	1891	KWKLKRPDSNIDHRRVPNLET WFSRHDKTRPTSKNPSDYQAG DIVSWRLDNGLAHIGVVSDGFA RDGTPLVIHNIGAGAQEEDVLF NWRMRQCQHNQHNTATFNGP RILAEQPPGKEYAANGNGQLYP MSSLNIKQGSDAHFPDYPLASP SNNEIDLLNLISVLWRAKKTVM AVVFAFACAGLLISFILPQKWT AAVVTTPPEPVQWQELEKSFTKL RVLDLDIKIDRTEAFNLFIKKFQ SVSLLEEYLRSSPYVMDQLKEA KIDEDELHRAIVALESEKMKA DNASKKKDEPSLYTSWTLSFTA PTSEEAQTVLSGYIDYISTLVVK ESLENVRNKEIKTQFEKEKLA QDRIKTKNQLDANIQRLNYS IANAAGIKKPVYNSNGQAVKDD PDFSISLGADGIERKLEIEKAVT DVAELNGELRNQYLVIEPITK AHVNDVNFTP KYQLSPSLPVK KDGPGKAIIVILSALIGGMVAC GGVLLRYAMASRKQDAMMAD
24771	55139	A	24909	1111	1895	PLVNFSNSHPVSNPSIQLSSITL PLVENE S RARA \VKDQMDAIDH QTGVRPLVFYSIVLPEIRAIILQS EGFCQDIVQALVAPLQEMKL DPTPIAHRTHGLNPNNLNKYDA RIAAIDYTLAHD DDGISLRNLDQ AQVILLGVSR CGKTP TSLY LAM QFGIRA ANY PFIADD MDNL VLP ASLKPLQH KLF GLT ID PER LAAI REER RENS RYASLR QCR MEVA EVE ALY RK NQIP WIN ST NYS VE EIAT KILD IMGLS RRMY
24772	55140	A	24910	77	434	EKRGREDKPGT MATFP PPATSA PQ QPPG P ED E D SSL D E S D LYSL A H SYL G P L I M P M P T S P L T P A L V T G G G R K G R T K R E A A A N T N R P S P G G H R E R K L V T K L Q N S E R K K R G A R R L R Q S W R
24773	55141	A	24911	31	295	

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24774	55142	A	24912	75	426	EKKRGREDKPGTMAFFPPATSA PQ\QPPGPGRDSQPWMDDL /YSLAHSYLG\GGGRKGHTKRE TAANTQPPQPLAGHERKTVDP KLQ\NSERKRGARALRQELEM RRRPWTLTPSQ
24775	55143	A	24913	1	1107	
24776	55144	A	24914	1	1468	
24777	55145	A	24915	1	2463	
24778	55146	A	24916	1	603	
24779	55147	A	24917	118	1087	IRSKKMTTQTVSGRRYFTKAW LMEQKSLIALLVLIAIVSTLSPN FFTINNLFNILQQTSVNAIMAVG MTLVIITSGIDLS/VAASIVGIEV NALVAVAALALGAAIGAVTG VIVAKGRVQAFIATLVMMLL RGVTMVTNGSPVNTGFTENA DLFGWFGIGRPLGVPTPVWIMG IVFLAAWYMLHHTRLGRYIYA LGGNEAATRFSGINVNKIKIIVY SLCQLASLAGIILKVARLSSAQ HTAGTGYELDAIAAVVLADDR QSGGDFAGGAGRQQKAVITTT GHLEYEHEKTGYPGFRCCAKR HRQCECDGKRHHRAGGLHA
24780	55148	A	24918	1	1286	MHIERPGLRAALAGQLEFRVG LGLGVWTLRLMELLRQRLELV VYTASDGQEYEMVSRLNWVN YLVLEDVHILPDQMGRGITGCY ATHPHERRLHAGTVHRQNIVN NPPDCVPRDAGEAEVAPDPSLA SLQLQTPELPGLISCHNSIQVSN EARLFELLICQWRDFRKRVIAA KSMQGRELEGGQRGQDKATNP FRVLALKGSGDPDPHGAGRQG SDLLLHPVSDAQVLQHFFQRRA LLSSPWDYHDVVGLCAQEPCG YIMELFIIKHQCSLAQTAGSLAP EQKKELEMTRYYISSADLTAE KFATAIRN/HWHVENKLHWRL DV*RQFDKHCSTADSTRILASF VRHVNAALDVRVVFASGSETT HGDGARRYLRCVDVDWRRRT AVAQADKSARACHFHYAGYH HHEHFADPVSVGAKYHTVFST

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24781	55149	A	24919	417	861	AKGCPDRNHSSDDKDVIADG KTLRHSYDKSRR\RGAIHVISAF STMHSLVIGQIKTDEKSNEITAI PELLNMLDIKGKIITTDAMGCQ KDI AEKIQKQGVIFSLCPASIIDD KKV TDLAVAVQGTLKTGSGGI LPPGGALKKISEKL
24782	55150	A	24920	3	1767	HISIHPDYR*AWKVEHKLSGILL LTIFAVISGAESWKDIEDFGKTH LDFWKQYQDFENGIPVHDTIAR VVSCISPAKFHE\CFINWMRDCH SSNDKDVIADGKTLRHSYDKS RRRGAIHVISAFSTMHSLVIGQI KTDKKSNEITAIPELLNMLDIKG KIITTDAMGCQKDI AEKIQKQG GDYLFAVKQRNGAVENRAKTQ TRIAFGDHFFRRQVSQRJRLFCH RLATQFAARLRMFIATGQPMN GLRLLLIVNKQAALLVNKLD QMAAFQQLPGRGRQATVRRE MDLCAFAERMGLPVS RPGDIQE FHAGCRTKFDAGAFRDKHHVA CFGDHGLAFVANMQLPFQHHV DFVVVQGPREECVLPLHKTGG HAAAVSGHKISQAHAMRLCA VETTKLDATGINHFDAAFAGHR FESSVDCACSAATVSFITFPSVCD RFGNWLRSGRCSHAARKNEITL TNTRRSLRPKRNTERHDMQTR ATVIAAGEKLLPYAETLMSTW QAARKEVAHTSRHNEFSIGASA SLWDMVMTSAGAVVTTVVVA VRPSSFYILCSHKKKRTLHTKR EKTVDRRKEYETRAKRSETDT

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24783	55151	A	24921	110	1282	SNTPYI ^I KENKME ^K KL ^M GHIS ^I IPDYRQAWKME ^H KLS ^D ILL ^L TI CAVISGAEGWEDIQDFGETHLD FLKQYGD ^F ENGIPVHDTIARVV SCISP ^A KFHECFINWMRDCHSS DDKD ^V IAIDGKTLRHSYDKST/ RRRGAIH\VNNAFSTMHSLVIG QIKTDKKSNEITAIP ^E LLNMLDI KGKII ^T TDAMGCQKDIAEKIQK QGGDYLFAVKG ^N QGRLNKA ^F E EKFPLKELNNPEHDSYAMSEKS H ^G REEIRLHIVCDVPDELIDFTF EWKGLKKLCVAVSFRSIIAEQK KEPEMTVRYYISSA\DLTAEKFA TAIRNHWHVENKLHWRLDV ^V MNEDDCKIRGNAAELFSGIRH IAINITNDKVF ^K AGLRRKMRK AAMDRNYLASVLAGSGLS
24784	55152	B	24922	258	507	
24785	55153	A	24923	1	3060	MTEIEENMLLPISGQELPIRWLA QHGSEKPVTHVSRDGLQALHIA RAEELPAVTALAVSHKTSLLDP LEIRELHKLVRDTDKVFPNPGN SNLGLITAFFEAYLNADYTDRG LLTKEWMKG ^N RVSHITRTASG ANACGGNLTDRGDSFVHDLTS MARYVATGVLARSMGLVIYSFI QHTLTLEEYREITAFLFREFTHA AAARYTGEQETLPLSPQWILRQ CKEVASLCDGDTFSGEQLNLM LQQREWREGFLAER
24786	55154	B	24924	56	967	
24787	55155	B	24925	1	1776	
24788	55156	A	24926	1	864	
24789	55157	A	24927	424	513	
24790	55158	A	24928	1	5049	
24791	55159	B	24929	1	939	
24792	55160	A	24930	1	1837	

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24793	55161	A	24931	1	2249	MLPDIARFLPRLANDQIEEFTW YVNHFHTYSNAIKIFCYQMFLAS TQARASGAPLQRLFRAIGGNA WERPFRMVFCSAAFSEESSPFR ETNYEPQLFLGFATDYRFAGW TLRDVEMGYNHDSNGRSDPTS RWNRLYTRLMAENGNLV VKPWYVVGVNTDDNPDTKYM GYYQLKIGYHLDGAVLSAKGQ YNWNTGYGGAELGLSYPITKH VRLYTQVSGYGESLIDYNFQ TRVGVGAIGVNVQAELNLE SGAKQLQETFGYQQFRPGQE EIIDTVLSGRDCLVVMPTGGK SLCYQIPALLNGLTVVVSPLNS LKEKSANPFEFTFAAFAHAFHW VIQAIMGMINTPADGSTHKQART SWLPYSSLPVLSVSTQDEKAKK KMRFMQRSKDSLAKWLSAILP VVIVGLVGLFAVTVIRDYGRAS EADRQALLEKGNVLIRALESGS RVGMGMRMHVQQQALLEEM AGQPGVLWFAVTDAQGIIILHS DPDKVGRALYSPDEMOKLKPE ENSRWRLLGKTETTPALEVYRL FQPMsapWRHGMHNMPRCNG KAVPVDAQQAIFIAVDASDLV ATQSGEKRNTLILYALATVLL ASVLSFFWYRRYLRSRQLQDE MKRKEKLVALGHLAA/GVAHE IRNPLSSIKGLAKYFAERAPAGG EAHQLAQHVQIRRFHAAHPAS

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24794	55162	A	24932	261	2115	TLVFCWHAKLLSHGVFMDIISV ALKRHSTKAFDASKKLTP EQAE QIKTLLQYSPSSTNSQPWHFIVA STEEGKARVAKSAAGNYVFNE RKMLDASHVVVFCAKTAMDD VWLKLVDQEDADGRFATPEA KAANDKGRKFFADMHRKDLH DDAEWMAKQVYLNVGNFLLG VAALGLDAVPIEGFDAILD AE FGLKEKG YTSLVVV PVEDLAGI EIDHTTSMVMIFGIIFLTAVVVH IILHWVVLRTFEKRAIASRLWL QIITQNKL FHRLAFTLQGII VNIQ AVFWLQKGTEAADIL TTCAQL WIMMYALLSVFSLLDVILLGQ KFP A\AFQLPLKG I\FQG I\KLMGP ILVGILMISLLIGQSP AILISGLGA MAAVLMLVFKDPILGL\ VAGI Q LSANDMLKLG DWLEMPKYGA DGAVIDIGLPTVKVRNWDNTIT TIPTWSLVSDSFKNWSGMSASG GRRIKRSISIDVTSIRFLDEDEM QRLNKAHLLKP YLTSRHQEINE WNRQQGSRESV\INLRRMP\NIG \TFCAYLNK VLGTH\PRIRKDM TLMVRQLAPGDNGLPFEIY AFT NTVVWLEYESIQADIFDHIFAIV EEFGLRLHQSPTGNDIRSLAGA FKQ
24795	55163	A	24933	1	757	
24796	55164	A	24934	8	343	
24797	55165	A	24935	1423	1761	
24798	55166	A	24936	1	851	MKGDTKVINYLNKLLGNE LVA INQYFLHAR MFKNWGLKRLND VEYHESIDEMKHADRYIERILFL EGLPNLQDLGKLNIGEDVEEML RSDLALELDGAKNLREAIGYAD SVHDYVSRDMMIEILRDEEGHI DWLET ELDL I\QKMGLQNYLQA QIREEGKSIYQEQT TAMKRPDY RTLQALDAVIRERGF/EARGTK AVHYTISRLTAH*ATGKYVRAA AVGAYRTAAPDGTRAKTAGTA APGGVAGRRVAGR*TNRFD SA AAFTGGQRRQSGD VVASCTGS CVG

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24799	55167	A	24937	1645	2009	PVFIQFVEGMCGTANEPACLVNQSPAIYFPGKIAAIWQNPRHVEGSM*TL/IDSD*VSPTECLSPRHHYMPFEEAARGYEIFEKREEECRKVILVPGAQSAAAQKAVSGLVNAMPGGTI
24800	55168	A	24938	1	3936	
24801	55169	A	24939	1	2240	MRSPMTRNSRNGKHDYKPPPRKRQPPHDHTAPNSTPARNQRG RPHRPNRQAGQREQRANNPTP NTPSPPPTNDPAEPHQTRHDSR QPHNTPPAYELVAAALLTTDT NVTRRLRYMQPDTKLCHSAG KSIYQEQTAMKRPDYRTLQAL DAVIRERGFERAAQKLCITQSA VSQRKQLENMFGQPLVEDET RTQERLRRGEVVGAVSIQHQAL PSCLVDKLGALDYLFFVSSKPFA EKYFPNGVTRSALLKAPVVAFD HLDDMHQAFLQQNFDLPPGSVPCHIVNSSEAFVQLARQGTTCC MIPHLQIEKELASGELIDLTPGL FQRRMLYWHRFAPESRMMRK VTDALLDYGHKADDIILRITAT AICGSDLHLYRGKIPQVKHGDI FGHEFMGEVVETGKDVKNLQKGDRVVIPFVIACGDCFFCRLQQ YAACENTNAGKGAALNKKQIP APAALFGYSHLYGGVPGGQAE YVRVPKGNVGPFKVPPLSDD KALFLSDILPTAWQAQNAQIQ QGSSVAVYAGPVGLLTIACAR LLGAEQIFVVDHHPYRLHFAAD RYGAIPINFDEDSDPAQSIIEQTA GHRGVDAVIDAVGFEAKGSTT ETVLTNLKLEGSSGKALRQCIA AVKRCGIVSVPGVYAGFIHGFL FGDAFDKGLSFKMGQTHVHA WLGEPLLIEKGLLKPEEIVTHY
24802	55170	A	24940	687	792	TPTLTRPLRHPVAYRATLK*NRPAKVSQLCCTNA
24803	55171	A	24941	3	510	AGDMVWLCVRTQISY*IPRTHP AVGIPRERPLRGADTPQRGASH RIRGEGRK*KRWALLCCPGCN I*RHFCHHN*ERYFW\IYWVEST GAVKHLQNTGHWLNAGALPV RRRPKSVTGSIARQ\VSVPISAR ALLACPCGQCAGYATQFVMKS ITQRFNVACRTRMYAVG
24804	55172	A	24942	189	563	

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24805	55173	A	24943	1224	1772	GPSVSLATSSCSIKVQNPGR VVAGSSAIISNVSPGICLRTVLR TIITGSGQRRPSASSVWSGHTSC VFRTANFSSGMVNLSVSVTNLS PSIVPRIKFIAGDPINPETNIFAG WL/VNGFRRTYLLNNPVFH NPRRHGHRFGLIVGHVDHGGV QFLMQLADLCAHLHAQLGIKV
24806	55174	A	24944	1541	3675	LEIIKRKISMRRNWMHSHTRY WRFLDFPTLRRGGRWMR*SGEK LNPISTPLRANCLALAQRATRL APMSFTWGMPSTSQPDCAVPGR RALPPELLCLQRSSQSRAFGTAI T
24807	55175	B	24945	1	1497	
24808	55176	A	24946	650	739	
24809	55177	A	24947	4447	4804	RQNDRYSGRERHEITPLCW*IPR IAWALWRLSRLRGQPQEKSLHN RVARTISWPYQARHPCRTLLGG HGFFLHIVLSQLPCLSYPLSSFA GLLARSSMFLKLAARFLCCRRS YAASPLSI
24810	55178	A	24948	1	3774	
24811	55179	A	24949	431	949	NYAIYHQNHGVNISPGLGKTHN YRQQHCGITYYWRDLMPANK NYKQRWITPGSASFYRSSHKAL IRLLATRLPAFPWGRRSAWRWP VRY*IRVPSSGSYHLEISMRWVI FPQPKALTPSNLHWKTA*LWS* KTLSFVCWIATVLPARFWKLTD PWLAILPCANIYWQASAPD
24812	55180	A	24950	337	648	

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24813	55181	A	24951	1	1430	MFTYPHSKFRVNRFVCQVLLIE FSIILDGGRGRTGLGHSLVWCISG DCSSFLQGKPTSLPLRKPSAIICS DSLSGSADLLRNHNHFVCTAADT FTTDITPEAGDARLIGIAQTVRH LEDPMRAWKSIHKSCIELDPIHR APVKENTHPARKINISDPAAGA VARIRYEGVLSVCRASASAYVS RSRTITVACWYVSVNTGVTGATI GVKRQHRHARLFSGDGAPGFG TGKRDIRQLRRRLVRIQIQTFFA AVLHVPTPWRAIDAAALLTVI DVKVLTACACQACRTLALRVA QVIDRCSNPGDIMSVAARRYWF ISRWSAKRDCAVSYDQDPGQA QRSCRSCLVAVDRGLWLSAYC RSLMTQTLLPDDVPRILPNASSP SRLRCL\HIWVITACWICANSSG FIARNL/GLCGWEKRLVKDLTRI QDTGRAKEILGATATLEFR\R*T PTLTRPLRHPVAYRATLK*NRP AKVSQLCCTNA
24814	55182	B	24952	1	1295	
24815	55183	A	24953	3151	3207	LQWLID*WCL**TFDLRFA
24816	55184	A	24954	2740	3917	NGRSVWAVKLELFRVKPLDIPQ QRVGQQHVLLKAFNRRLAMQF IQLIATDVTIELPLHVVEDGTDS LYCLALSHLRCGRSLWRREL PRGLGVNVSWCYPFKAQGQCA AEITDKAGQREIFGFARVKENA GYVIYECYQPDDGDKLIRELPF SSLIFARQWFVVGELLQHLPPE DRITPIVGMLQGVVEKGELRV EVADTNESKELLKFCRKFTVPL RAALRDAGVLANYETPKRPVV HVFFIAPGCCYTGYSYSNNNSP FYMGIPRLKFPADAPSRLKLE EAFHVFIPADEWDERLANGMW AVDLGACPGGWTQLVKRNM WVYSDHGSMVQ/SLWITTGT CWGTRFHSARGQKFPEVLQGS QTLPAATDPPGMQWLASGVLE
24817	55185	A	24955	1	519	
24818	55186	A	24956	510	731	

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24819	55187	A	24957	1	1055	MRLCPEKTTAKRVAKLAWSK KEEPWLSEWSEEVLEMGYKKL GDFSTAGAILETEIRPSPASAFTL DSQPPESNNLSEAKYAPNNIESI AKYFAPKSPMFSESPSGTALDS FNRNERRRWPLWPNKSGFGSD LTLSKIGISSLSPDIALERLYEQAR KLSGKFRALELDESARSGVLIK VLCAFAYQDYSRSASTRKCD CCDGFFTEAQVFTNKVSYPW GKPPYWSKMSRAVRPSDWESW TQAREVVVRVKCKPCNGKGVIS NSCRCHGKGKVLAKHESDRRG VPVMKACDRCGGRGYARLKFS SVMRALILLRLKKTAAYEQL QPLFEELVAECHKQESMADSIL SKVTR
24820	55188	A	24958	361	725	
24821	55189	A	24959	1100	1738	WQRSTLPLLFEAMQTGVNAG NPVAW*KSAGYGHGKLYDAKN RLLVQSTALWASQLVQYLSTF FRKNLKRPSEFVTLADEIEHVN AYLQIEKARFQSRLQVNIAIPQE LSQQQLPAFTLQPIVENAIKHGT SQLLDTGRVAISARREGQHML EIEDNAGLYQPVTNASGLGMN LVDKRLRERFGDDYGISVACEP DSYTRITLRLPWRDEA
24822	55190	A	24960	1	2043	
24823	55191	A	24961	2164	2487	KLKRIARHNFHGIRDHLHFQQV NRFSSGFPTTYWLMMADHVHH LKYTYSTCRIEGGHRFLKDHRHS CAAPLTKLFFPRVKNIFSQQGN LPPMYAITARR*QTHNQHCGD

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24824	55192	A	24962	128	2574	QVVVVMAKVAKVVIDIVVVV GVEMIRVKVVAIVVEVVVVEV VVVMVAWWW****WW*/DMG EARWWWEYGVWEVEPEIILNA PQQYLLAGIGDTLAKWYEAVV LAPQPETLPLTVRLGINNAQAIR DVLLNSSEQALSDQQNQQLTQS FCDVVDAIIAGGGMVGGLGDR FTRVAAAHAHVHNGLTVLPQTE KFLHGTKVAYGILVQSALLGQ DDVLAQLTGAYQRFHLPTTLA ELEVDINNQAEIDKVIAHTLRPV ESIHYLPVTLPDTLRAAFKKYS QSCFVIRLGGDFIHQLAENHIVI FVNHHNGTRCQTFQWAISNCH TVSLQKFSVRKFLSDLFAIGGR RGVRPPTEAPGHQKSDNQAHV SVSFDGLDLVFFVNQWAGVV FCFDLFSRKGRFSVWRNKGFG RYCQRLANFRDRQAFQLLNQIH FTRCKQVDNGTEFKATHFLAF QQCHRTVVFPGRPAIKTRVERL DRYRNRMEKSNGQANLRVHG GTWEKLVQLQDSAGMVNRVSS VGAPLREPIPTEGKGAKEDTWG NLSSNDPLLEAFGGQFGIAISMH QTLATRGGKRNARPTTRPRFHR GTNPRTGIAPHIGTANARYSTGH CPVALPFGLRGPPLARENVATA TKGHEASRETEVVAVAKLTSR VLLICDATHALPIQVLRNDIRVI AAGNGCTDDLQLEHLPANTDIR
24825	55193	A	24963	117	335	PGLAPATRRSTPGRFNADAGAD *RRAAGTGAGRAKRRGVGIHR CLADPFLADCRNAGLPGAALC GTAAASGK

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24826	55194	A	24964	208	1903	YLAIKTFRCLHDFFTDEQLSRA VVIYGKRAIAAAQTKLPPAFGL PGAKHILFRGHCSESDVQQLAA ESGDDRSVVIGVGGGALLDTA KALARRLGLPFVAVPTIAATCA AWTPLSVWYNDAGQALHYEIF DDANFMVLVDPEIILNAPQQYL LAGIGDTLAKWYEAVVLPQP ETLPLTVRLGINNAQAIRDVLL NSSEQALSDQQNQQQLTQSFCDV GDAIIAGGGMVWGLGDRFTRV EAAHAGPNGLTGLPTEKFLH GTKVAYGILV\QSALLGQDDVL AQLTGAYQRFHLPTTAAELEVD INNQAEIDKVIATLRPVESIHY LPVTLTPDTLRAAFKKLIQGLIS AEQLAQALAEQNGVAWESIDA WQIPSSLIAEMPASVALHYAVL PLRLENDELIVGSEGDIDPVSLA ALTRKVGRKVRYVIVLRGQIVT GLRHWWYARRRGHDPRMLYN AVQHQWLTEQQAGEIWRQYVP HQFLFAEILTTLGHINRSAINVL LLRHERSSLPLGKFLVTEGVISQ ETLDRVLTIQRELQVSMQSLLL KAGLNTEQVAQLESENEGE
24827	55195	B	24965	31	205	
24828	55196	B	24966	69	402	
24829	55197	B	24967	1	721	
24830	55198	A	24968	1	1703	
24831	55199	A	24969	2853	2889	LIIGLDLPAVSAIFQRALRFTHV GIADGGAYVVQR/HRPDEPRRR CCSE
24832	55200	A	24970	297	473	
24833	55201	A	24971	1179	2148	CQVLRPRTKRLNVLFHMRQH QWRQRELVHNMCFVIACAKRK RAPFVQAAEEV\RPQGHDDFP LAIWQTGSGTQSNNMNMNEVLA NRASELLGGVRGMERKVHPND DVNKSQSSNDVFPTAMHVAAL LALRKQLIPQLKTLTQTLNEKS RAFADIVKIGRTHLQDATPLTL GQEISGWPASRSGTGSWRYSGG YWTKYPSGVCAASRSKMNWYST RASDGGHASDAVRTAQAADRE LRAPVRDELNASITSKTRLAEST SLAEWVKASPHDDDKPILLPGE WEVNTRRERQKQGIPLDAGSW QAICDAARQIGMPEETLQAFCQ Q

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24834	55202	A	24972	166	365	NPFNSNPWETYPVAFTIPLALFM GIYLRYLPRGRIGEVSVIGLV/SP DFRHYLWRLGGRKSDLGTVL
24835	55203	A	24973	83	362	KPPCFLQASVTCWLRLPFASMI LPPCAC*ST*ESIRPAVVGPREP EGITFRRFGRTRVNRMIFDVL RHLFTVIHPLFQFGVTVYITDDN
24836	55204	A	24974	584	853	
24837	55205	A	24975	1	3017	MSQDPFQEREAEKYANPIPSRE FILEHLTKREKPASRDELAVEL HIEGEEQLEGYAPVLAPESGILI MRPTLTMPALTAKFVDTGPVW TGNLFPFLFITIACGAVSGFHALI SSGTTPKMLANEQACFIGYGG MLMESFVAIMALVSACIIDPGV YFAMNSPMAVLAPAGTADV ASAAQVVSSWGFSITPDTLNQI ASEVGEQSIISRAGGAPTLAVG MAYILHGALGGMMDVAFWYH FAILFEALFILTAVD
24838	55206	A	24976	3	206	EPDFLPL**RRNHEQNYRDGKC TGSYRSLRTGR*SGQYDHHLRS DPGKSENGRSTGRRCTGTSVA G
24839	55207	A	24977	3	982	GDAEPFVFLPR\RKDHEYSLDH YQHRFYLRSNRHGKNFGLYRT RMRDEQQWEELIPPRENIMLEG FTLFTDWLVVEERQRGLTLSRQ INRKTREVIGIAFDDPAYVTWIA YNPEPETARLRYGYSSMTPDT LFELDMDTGERRVLKQTEVPGF YAANYRSEHLWIVARDGVEVP VSLVYHRKHFRKGHNPLLVYG YGSYGASIDADFSFSRLSLLDR GFVYAIHVVRGGGCKINLVVD NGKIVRAEAAQGKTNQGTLCL KGYYGWDFINDTQILTPRLKTP MIRRQRGGKLEPVSWDEALNY VAERLSAIKEKYGPDAIQTTGSS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
24840	55208	A	24978	1339	3640	SPLSTAGISICGPLLIITVDLGT TVAGIKGMIATGEGTTEWNSV MVAMLLTLIPPVVIVLVMQRAF VRGLVDMRNKMAGLKLQAVT KSWDGKTQVIKPLTLDVADGE FIVMVGPGCGKSTLLRMVAG LERVTEGDIWINEQRVSELRLIG YMSRKMGGGKNRREPHIDVKR GIFGLSITPEFSEPLAEDFLSRRQ YGIRFRNLETGNWYPELLDNVE PSFVWANDSWIFYYVRKHPVT LLPYQVWRAIGTPASQDKLIY EEKDDTYYVSLHKTTSKHYVVI HLASATTSEVRLLDAEMADAE PFVFLPDKDHEYSLDHYQHRF YLRSNRHGKNGFLYRTRMRDE QQWEELIPPRENIMLEGFTLFTD WLVEERQGLTSRQINRKTR EVIGIAFDDPAYVTWIAYNPEPE TARLRYGYSSMTTPDTLFLDI DTGERRVFKPPE/V/PGFYAA/SY RREPRW/IVSADGVKYSFV\APR QHFRRDAPVLSFLLFSDRAPFR NNGPRVVLLGYYHPELLGVT YSQLSVHEARPKPLPIPHSRHRH VPTRNEMAQEKERPAGSQSLFR GLMLIEILSNYPNGCPLAHLSEL AGLNKSTVHRLLQGLQSCGYV TTAPAAGSYRLTTKFIAVGQKA LSSLNIIHIAAPHLEALNIAATGET INFSSREDDHAILIYKLEPTTGM LRTRAYIGQHMPLYCSAMGKI
24841	55209	A	24979	1	248	
24842	55210	A	24980	839	1625	PDAFILTTKPAGAIPTSTSITRPIP FCPSFAPCENATPAAET/HQRNT RPEWRFTFAFFLFAIFRNAVNT VTMSIRKGIGVHHNAANLVPW MTKFFQRFGIAFQSRRGAVFHQH HHAGYAGQRGKTALAEQRLVF GFGINKQMRAVPLIGEVYQFSG *CQRQSFADGFTDSNAFNNIS GNSTARDKLFIAHYGNRYFHC GVNAQIIFMQUELGDFRHVF/A QKGNEYHGDTRISPGRFRRGHH PLGALRLAASVERSGNGHRA
24843	55211	A	24981	2538	2864	GSSLINSKVMP/SF*QQNRKFAY KRAVGATDEFHAESFVRGRAP MKRKL*LFMQLGGDVIQPFDGF IAGNTVYRCQQLAVGDAVGKI LHNRYAFRQQSTVIQQQCRHLP
24844	55212	A	24982	1	1281	